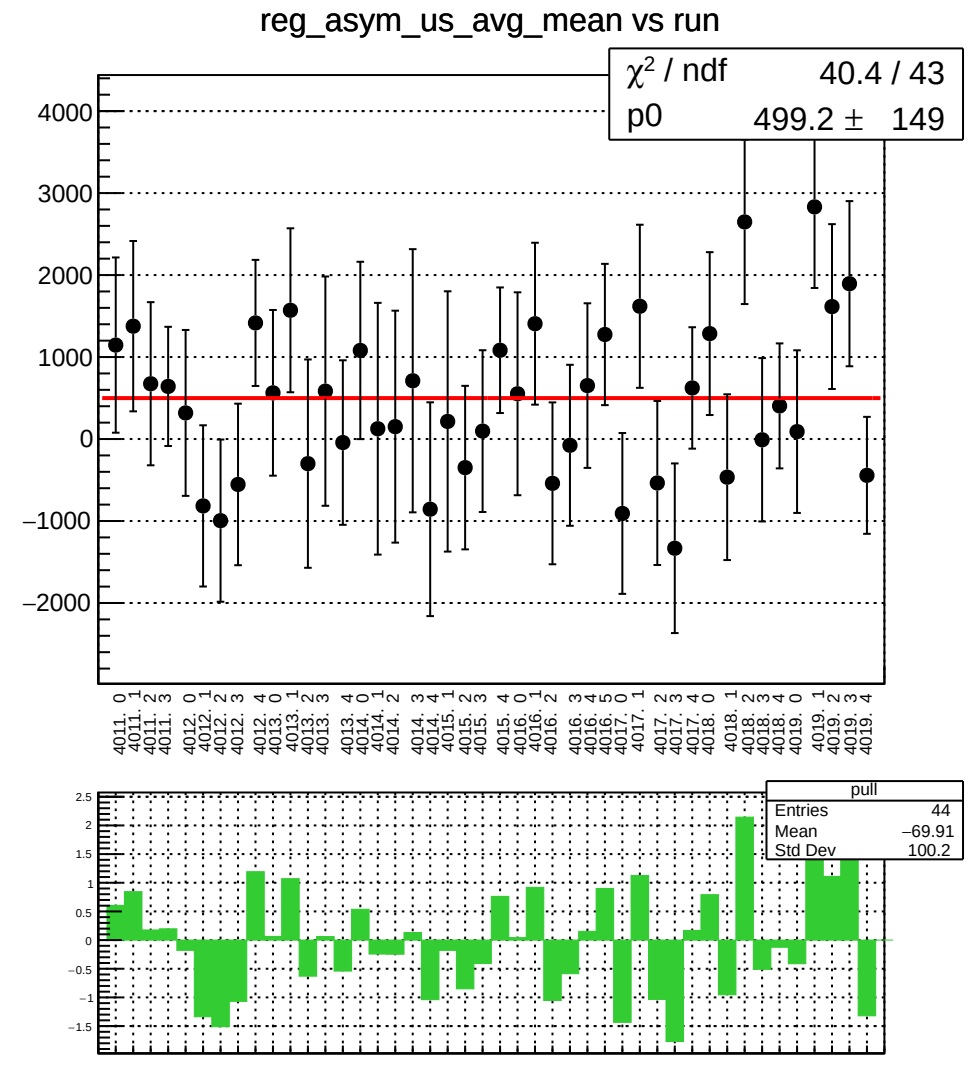
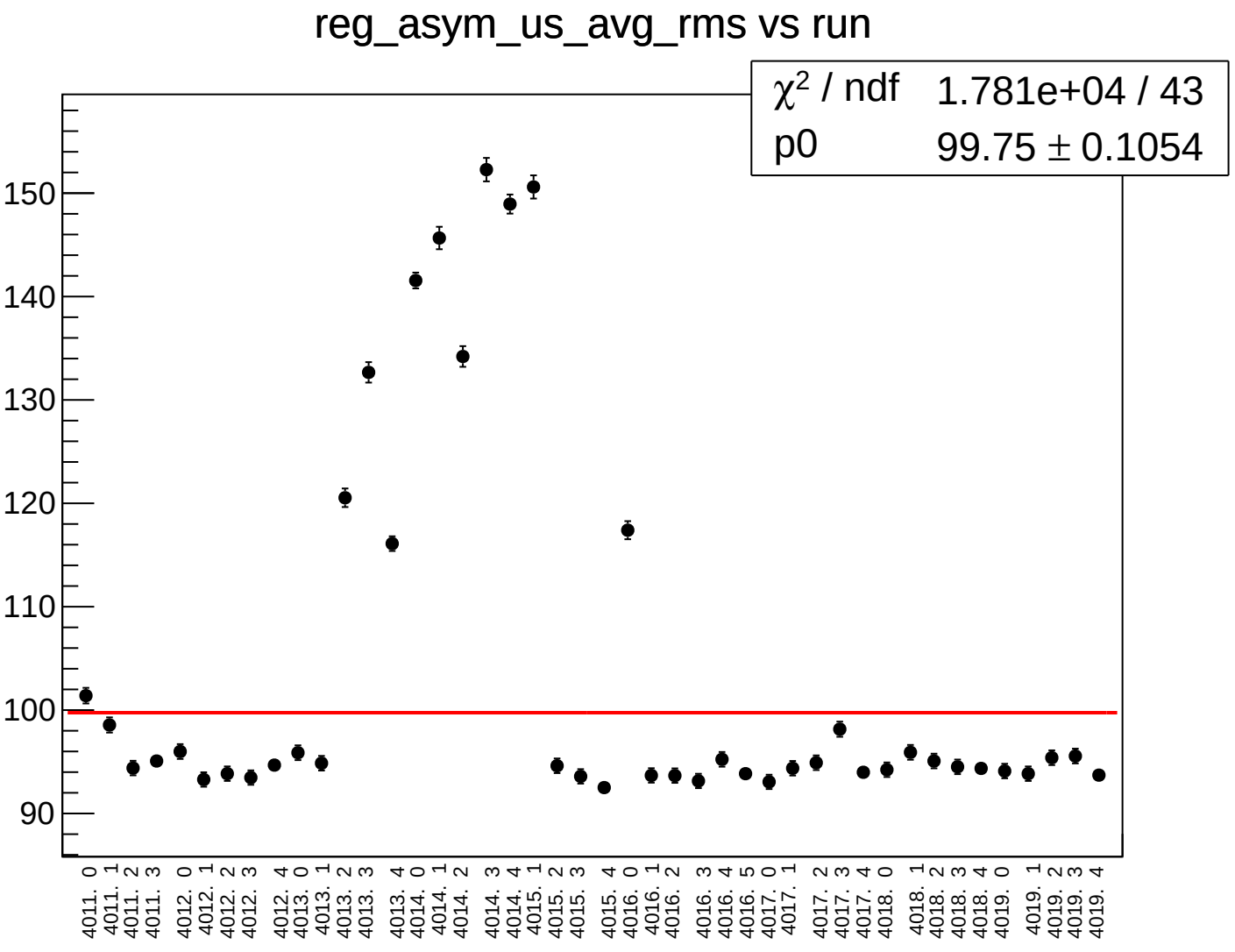
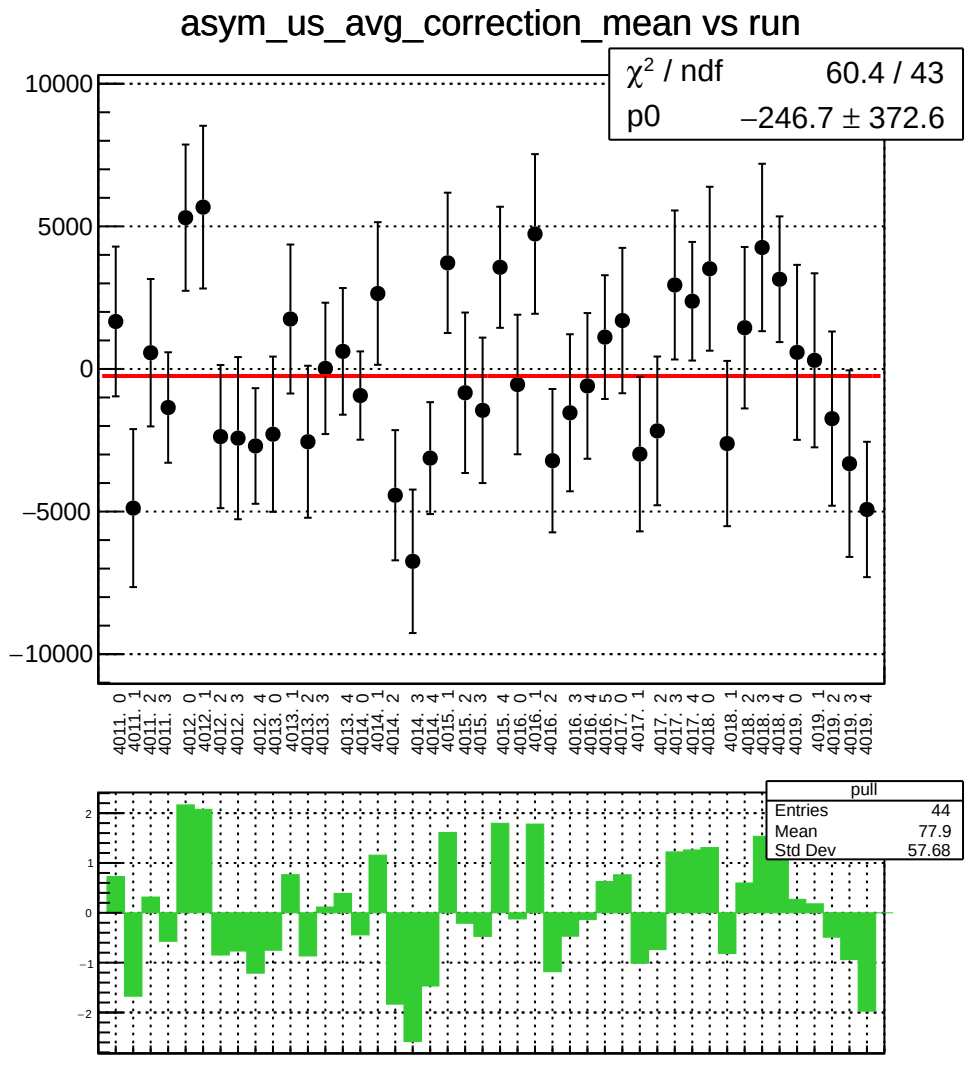
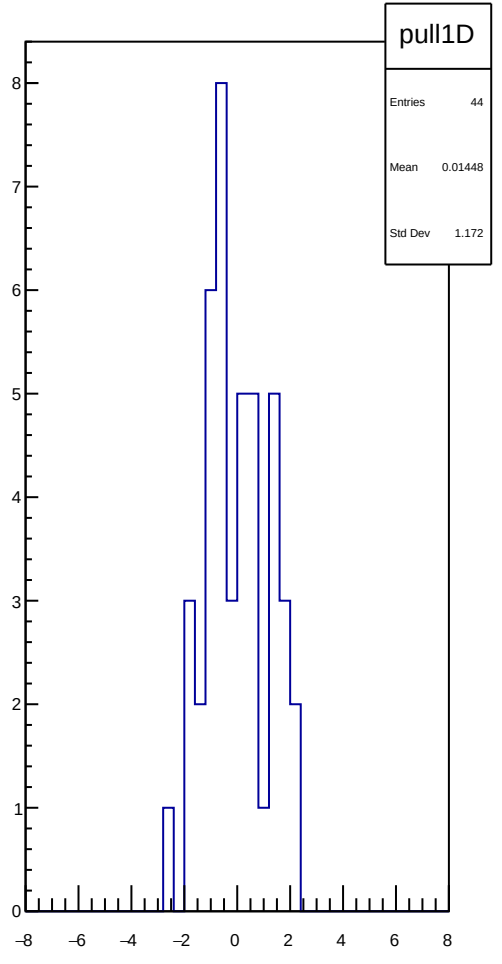
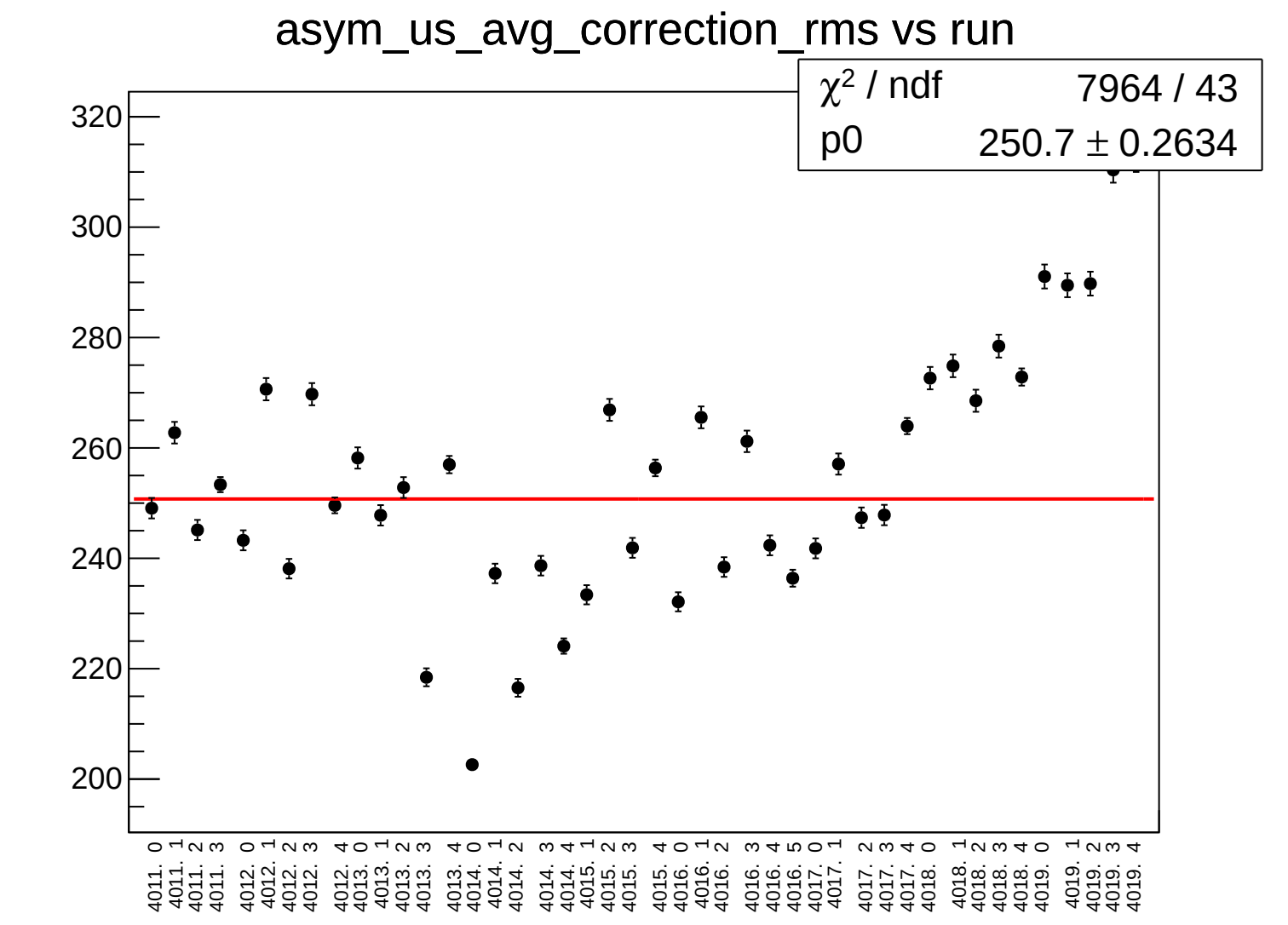
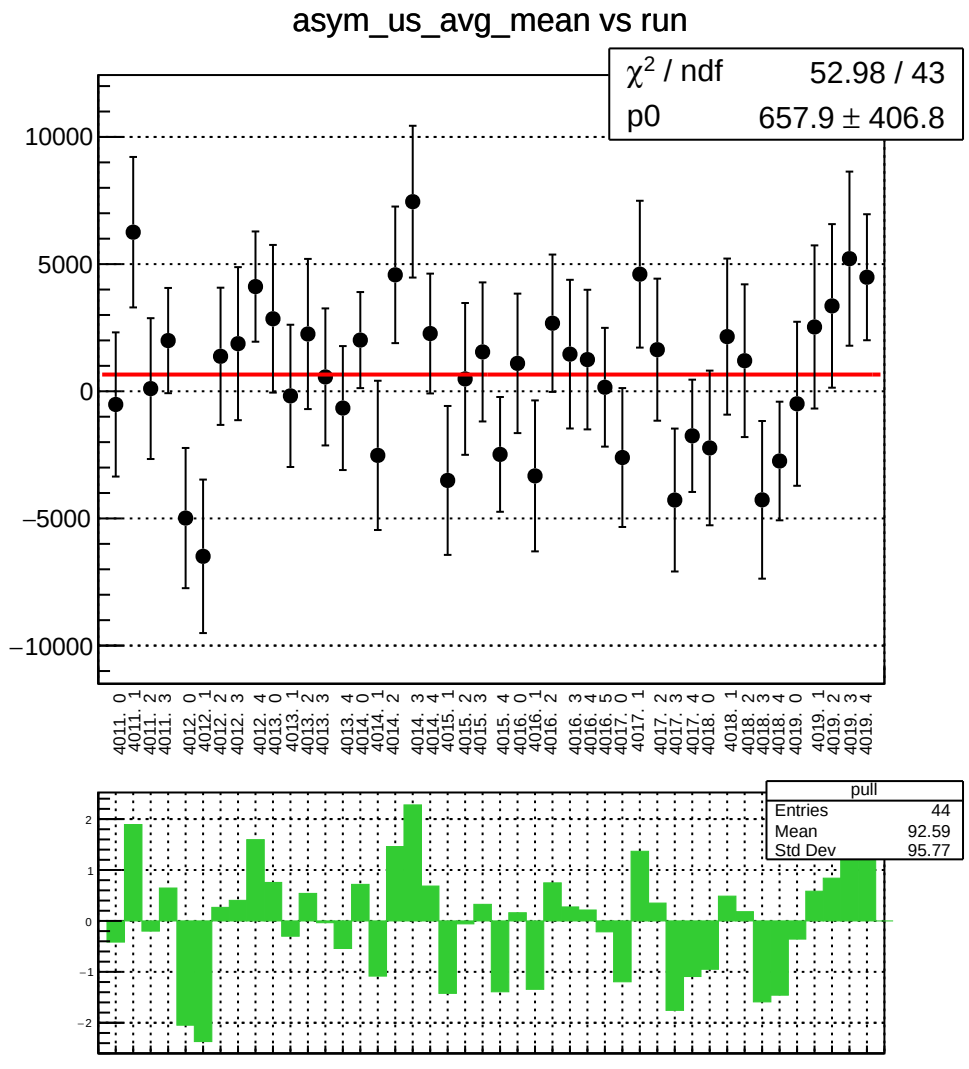

reg_asym_us_avg_mean vs run
χ² / ndf 40.4 / 43
p0 499.2 ± 149
4000
3000
2000
1000
0
−1000
−2000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4016. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −69.91
Std Dev 100.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean −0.01574
Std Dev 0.9581
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

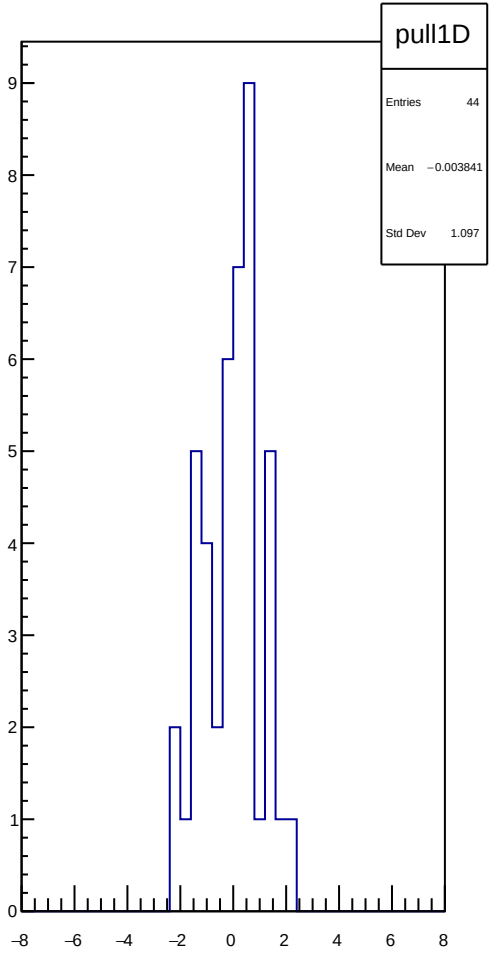

reg_asym_us_avg_rms vs run
χ² / ndf 1.781e+04 / 43
p0 99.75 ± 0.1054
150
140
130
120
110
100
90
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

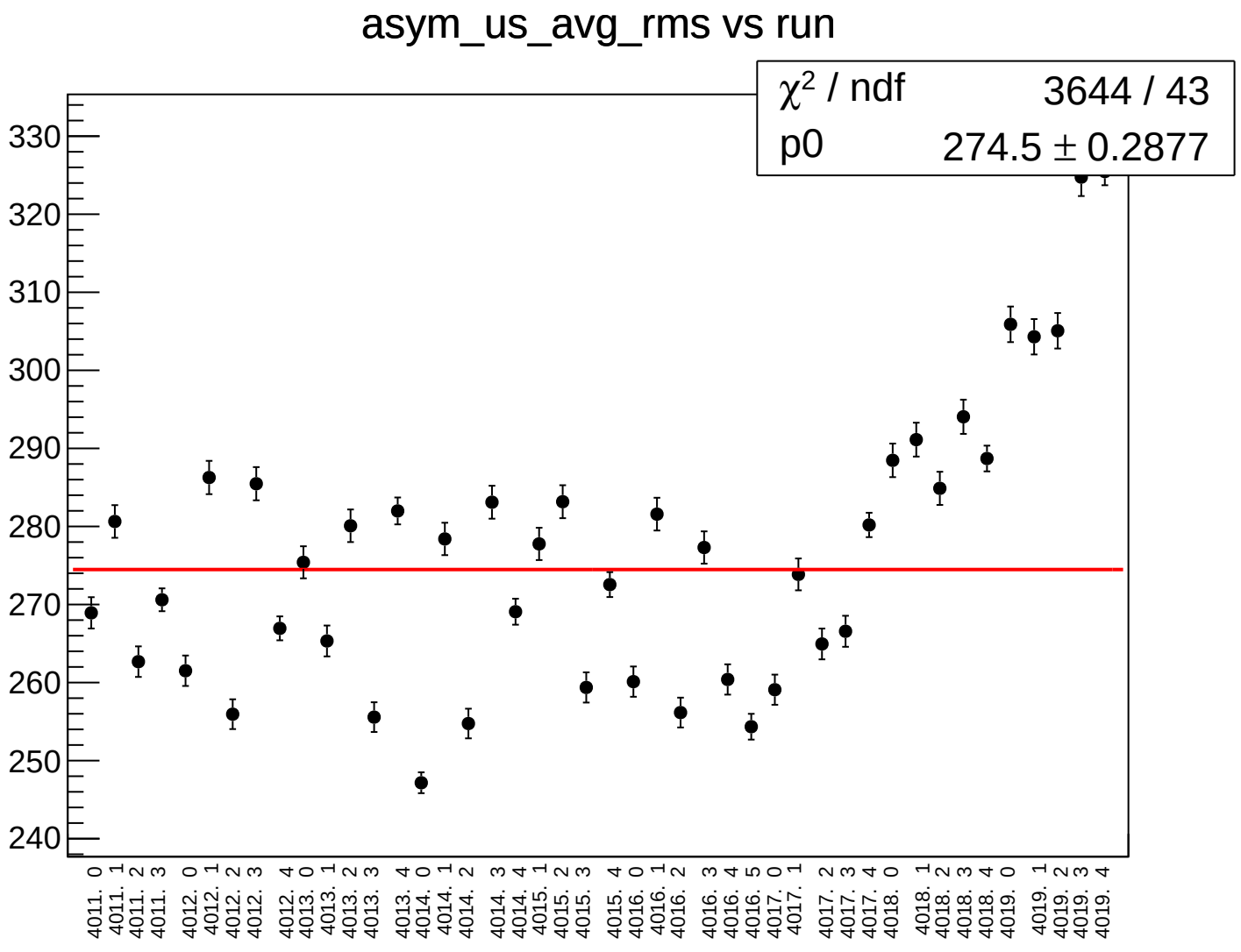

asym_us_avg_correction_mean vs run
χ² / ndf 60.4 / 43
p0 −246.7 ± 372.6
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 77.9
Std Dev 57.68
2
1
0
−1
−2

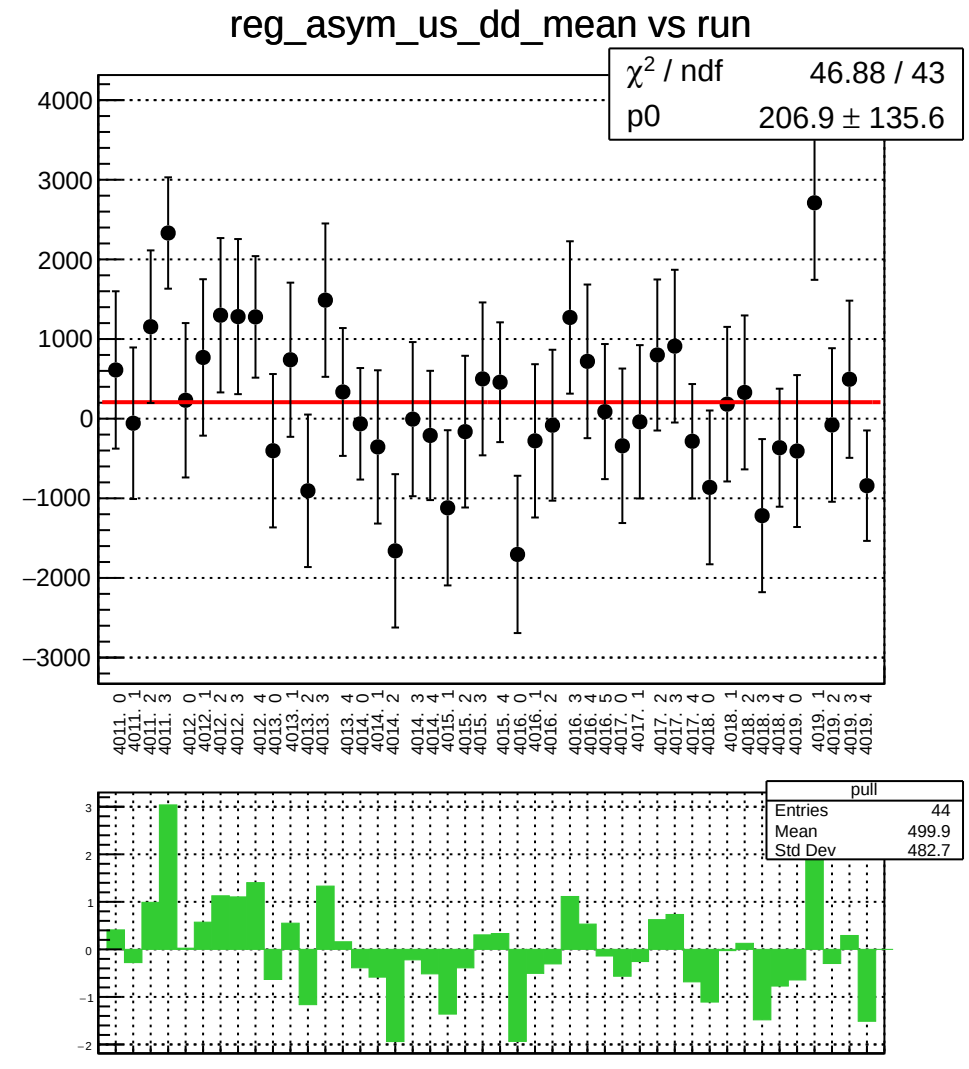

pull1D
Entries 44
Mean 0.01448
Std Dev 1.172
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

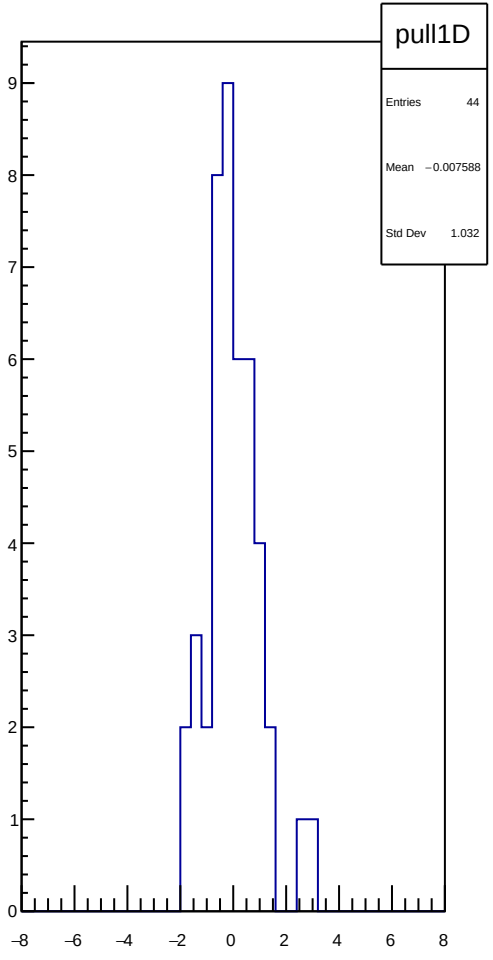

asym_us_avg_correction_rms vs run
χ² / ndf 7964 / 43
p0 250.7 ± 0.2634
320
300
280
260
240
220
200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

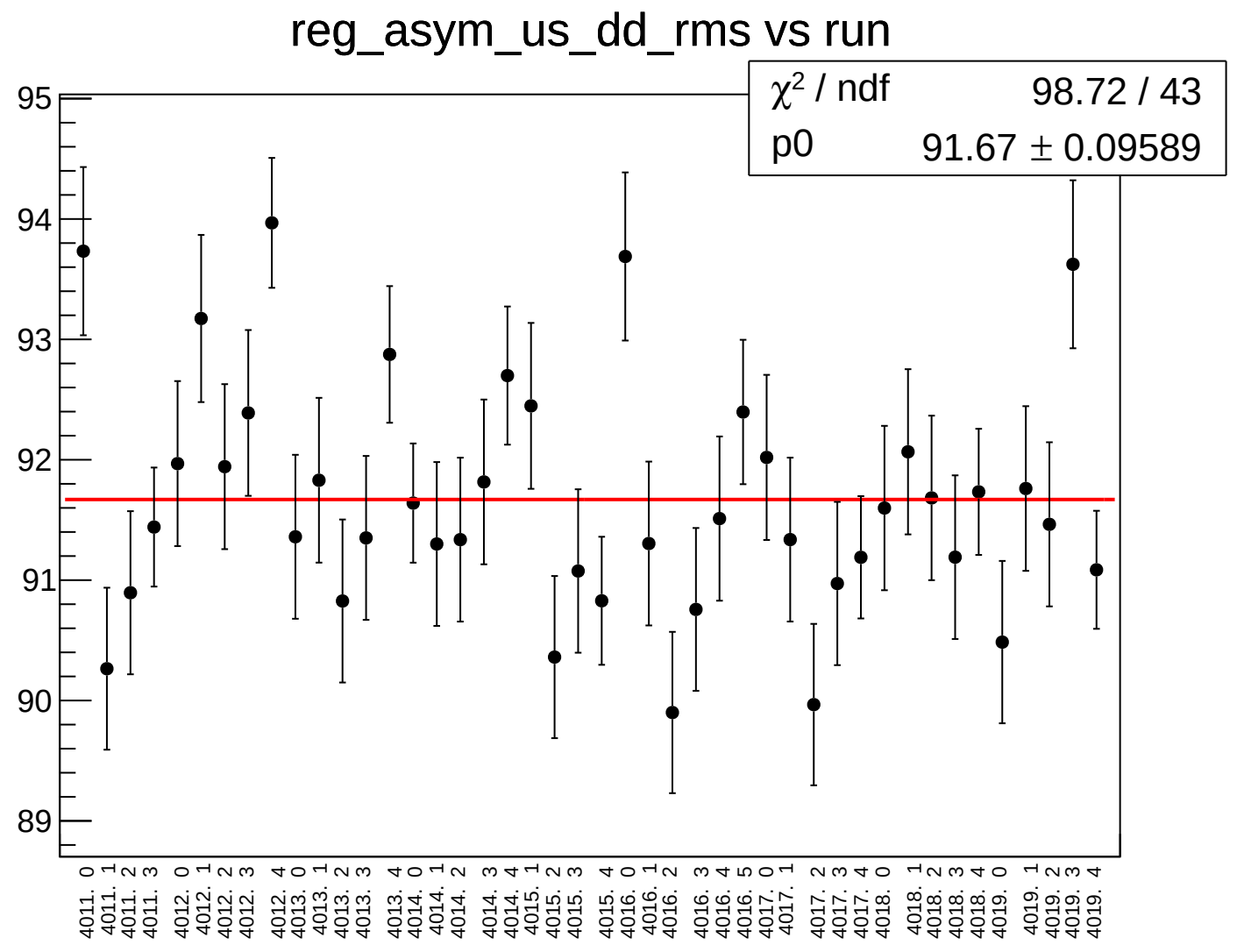

asym_us_avg_mean vs run
χ² / ndf 52.98 / 43
p0 657.9 ± 406.8
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 92.59
Std Dev 95.77
2
1
0
−1
−2

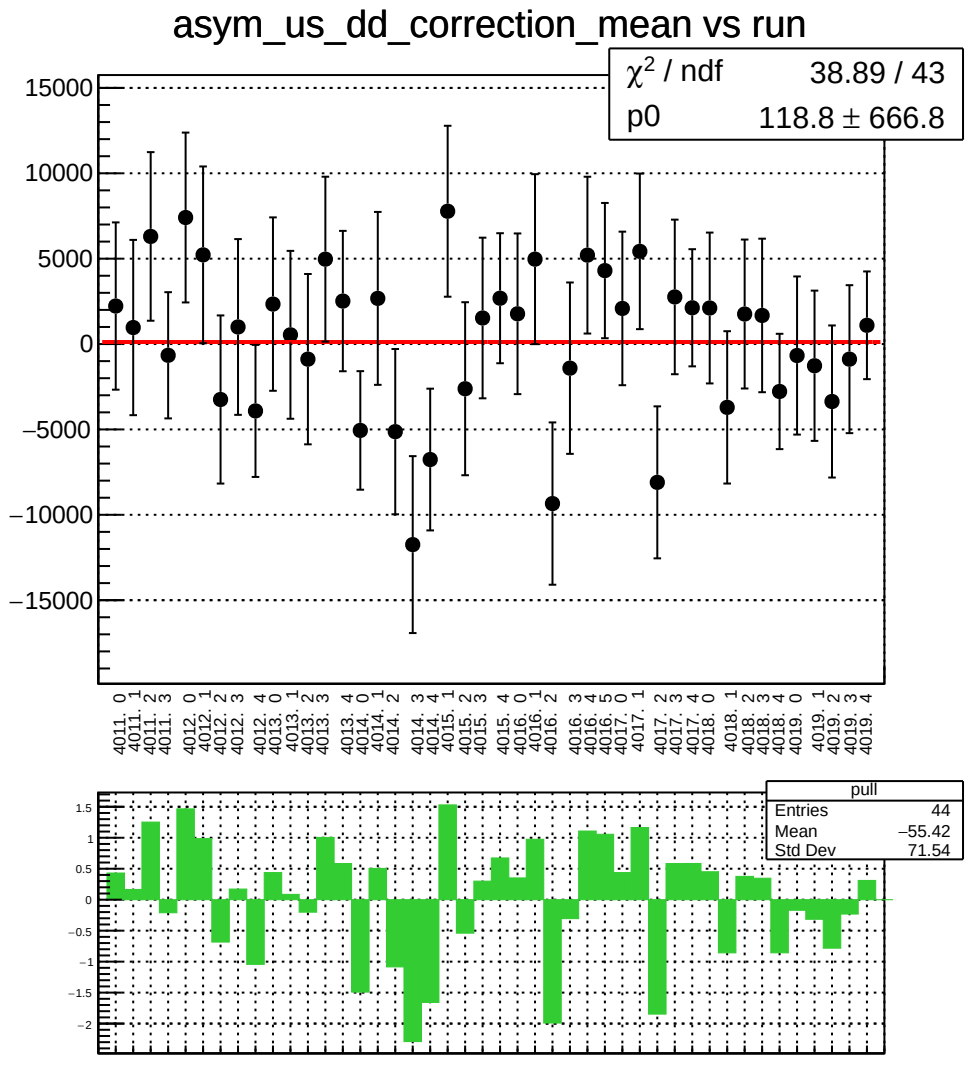

pull1D
Entries 44
Mean −0.003841
Std Dev 1.097
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

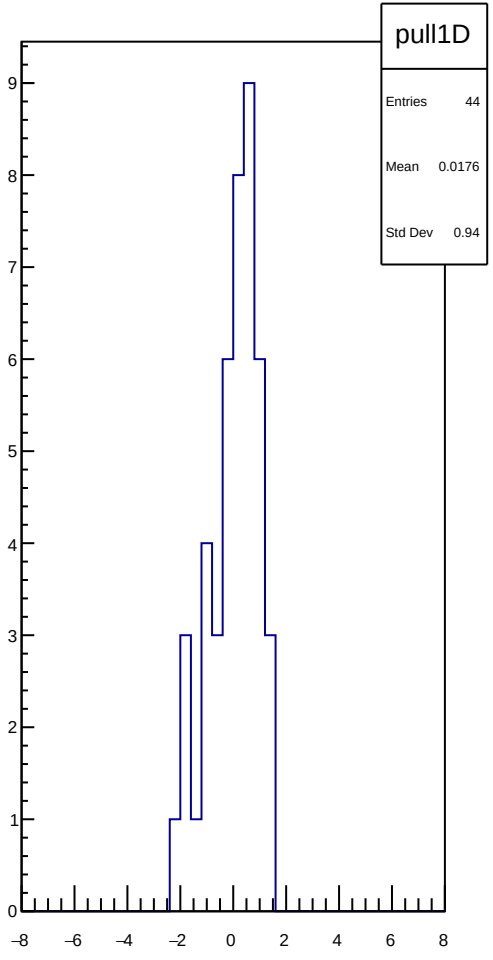

asym_us_avg_rms vs run
χ² / ndf 3644 / 43
p0 274.5 ± 0.2877
330
320
310
300
290
280
270
260
250
240
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

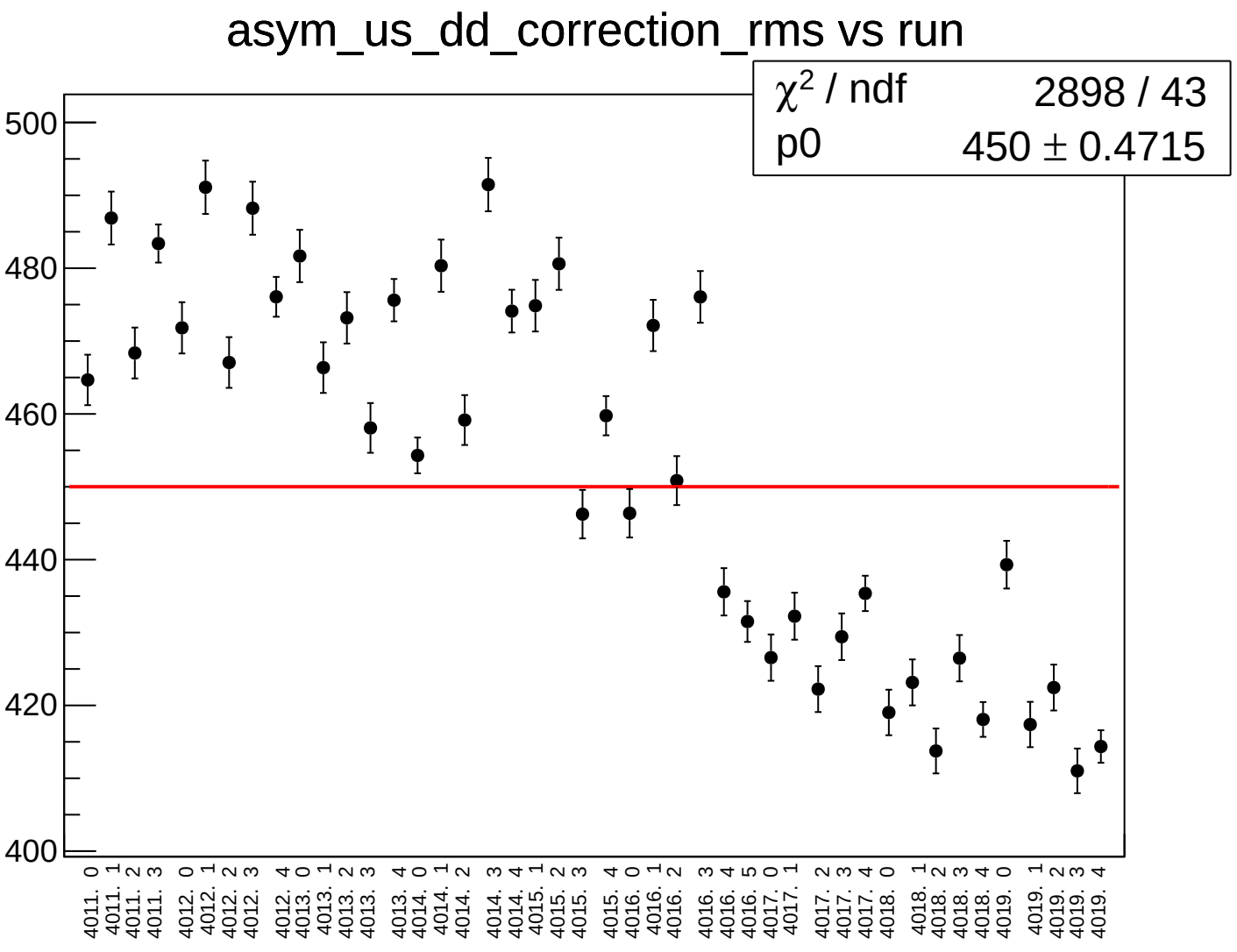

reg_asym_us_dd_mean vs run
χ^2 / ndf 46.88 / 43
p0 206.9 ± 135.6
4000
3000
2000
1000
0
−1000
−2000
−3000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 499.9
Std Dev 482.7
3
2
1
0
−1
−2

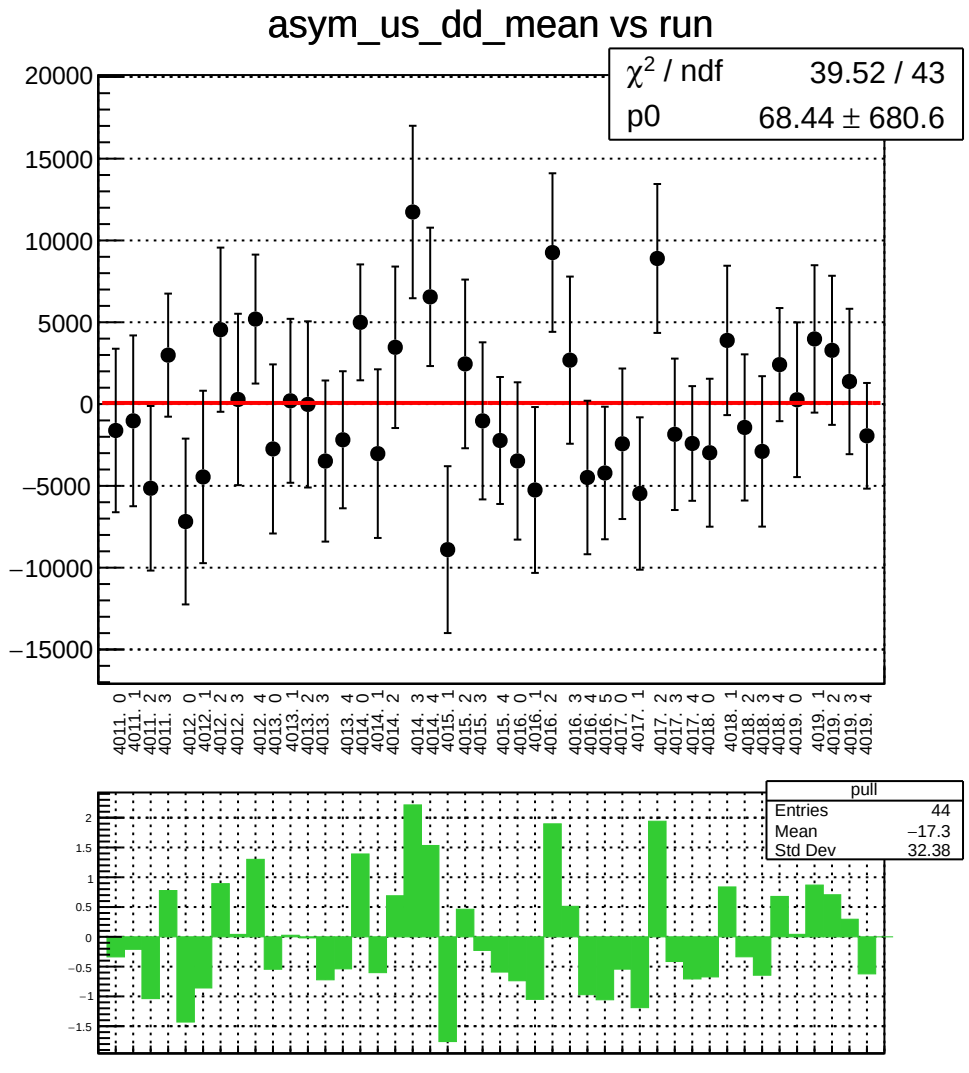

pull1D
Entries 44
Mean −0.007588
Std Dev 1.032
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

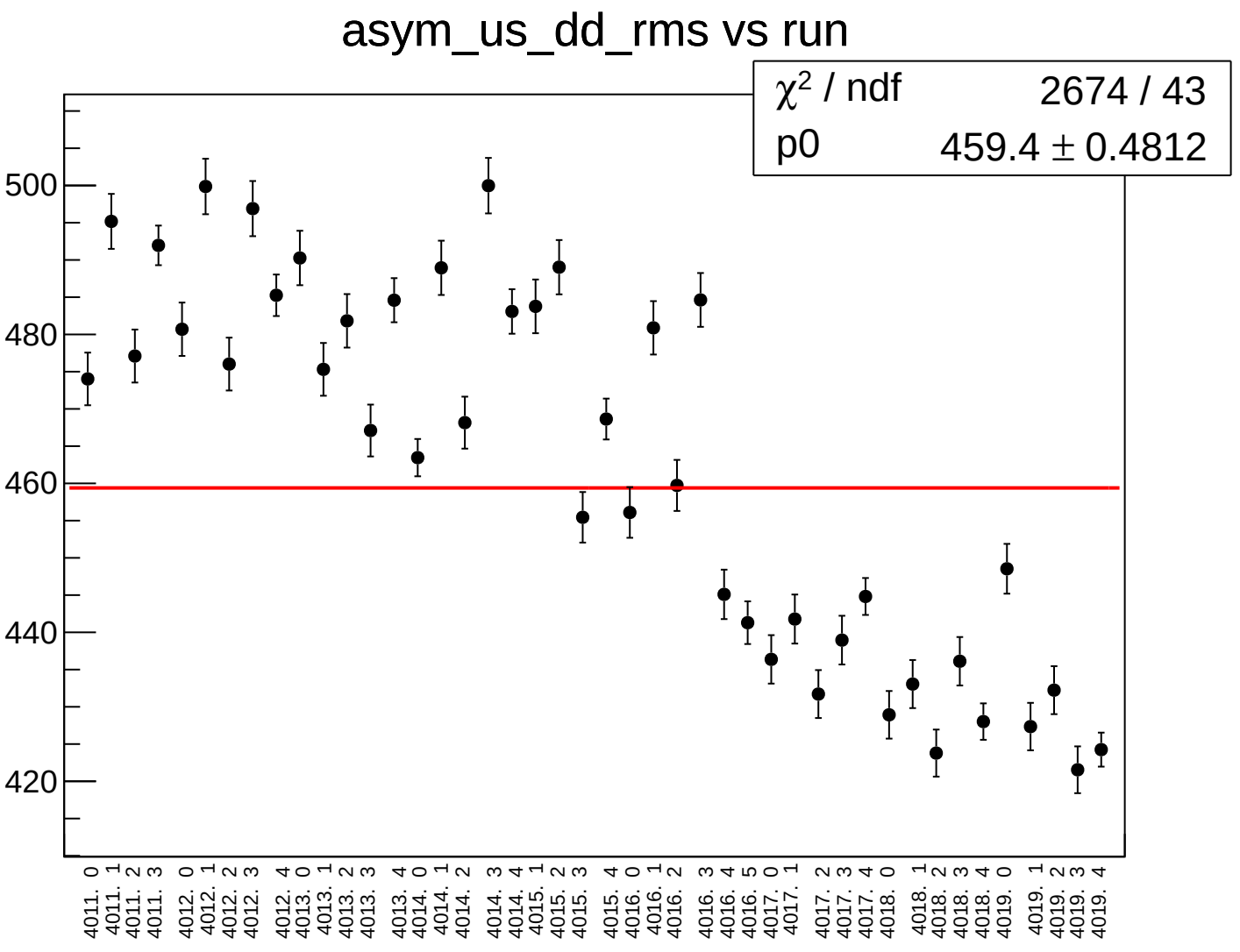

reg_asym_us_dd_rms vs run
χ^2 / ndf 98.72 / 43
p0 91.67 ± 0.09589
95
94
93
92
91
90
89
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

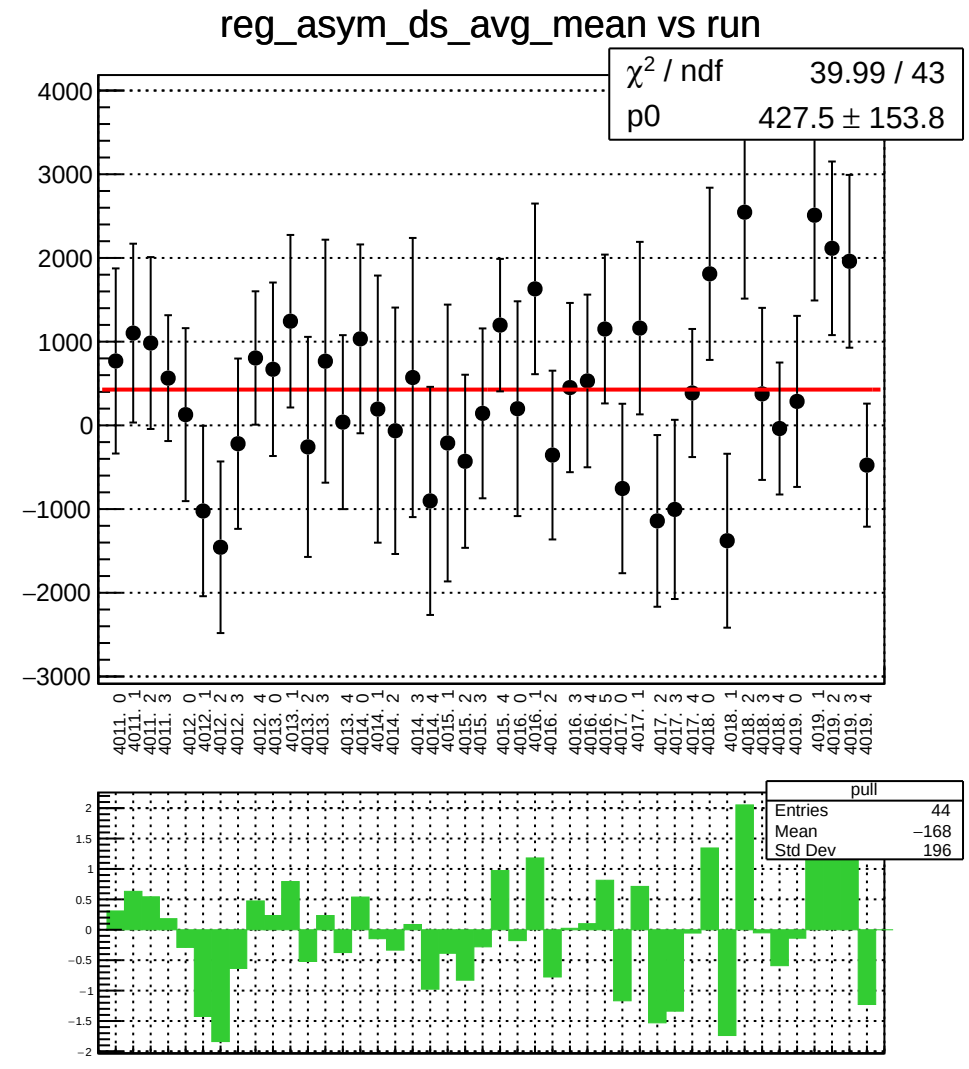

asym_us_dd_correction_mean vs run
χ² / ndf 38.89 / 43
p0 118.8 ± 666.8
15000
10000
5000
0
−5000
−10000
−15000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −55.42
Std Dev 71.54
1.5
1
0.5
0
−0.5
−1
−1.5
−2

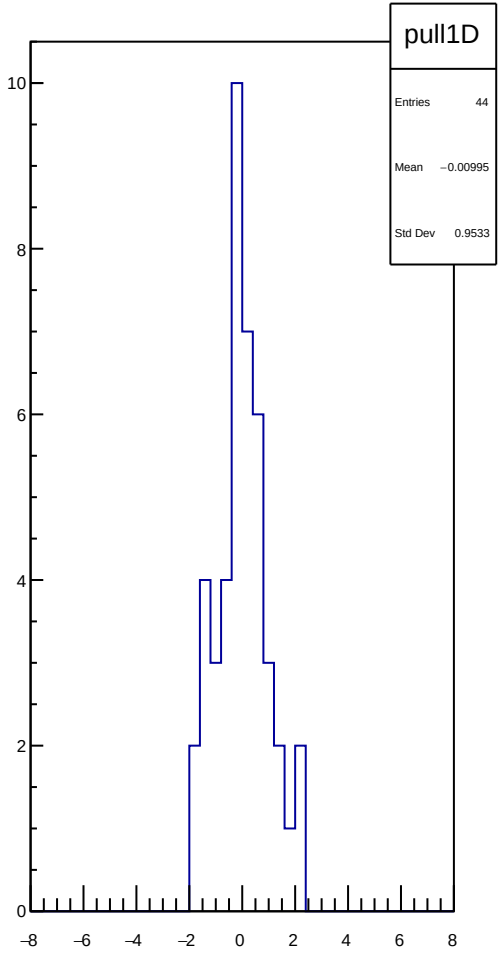

pull1D
Entries 44
Mean 0.0176
Std Dev 0.94
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

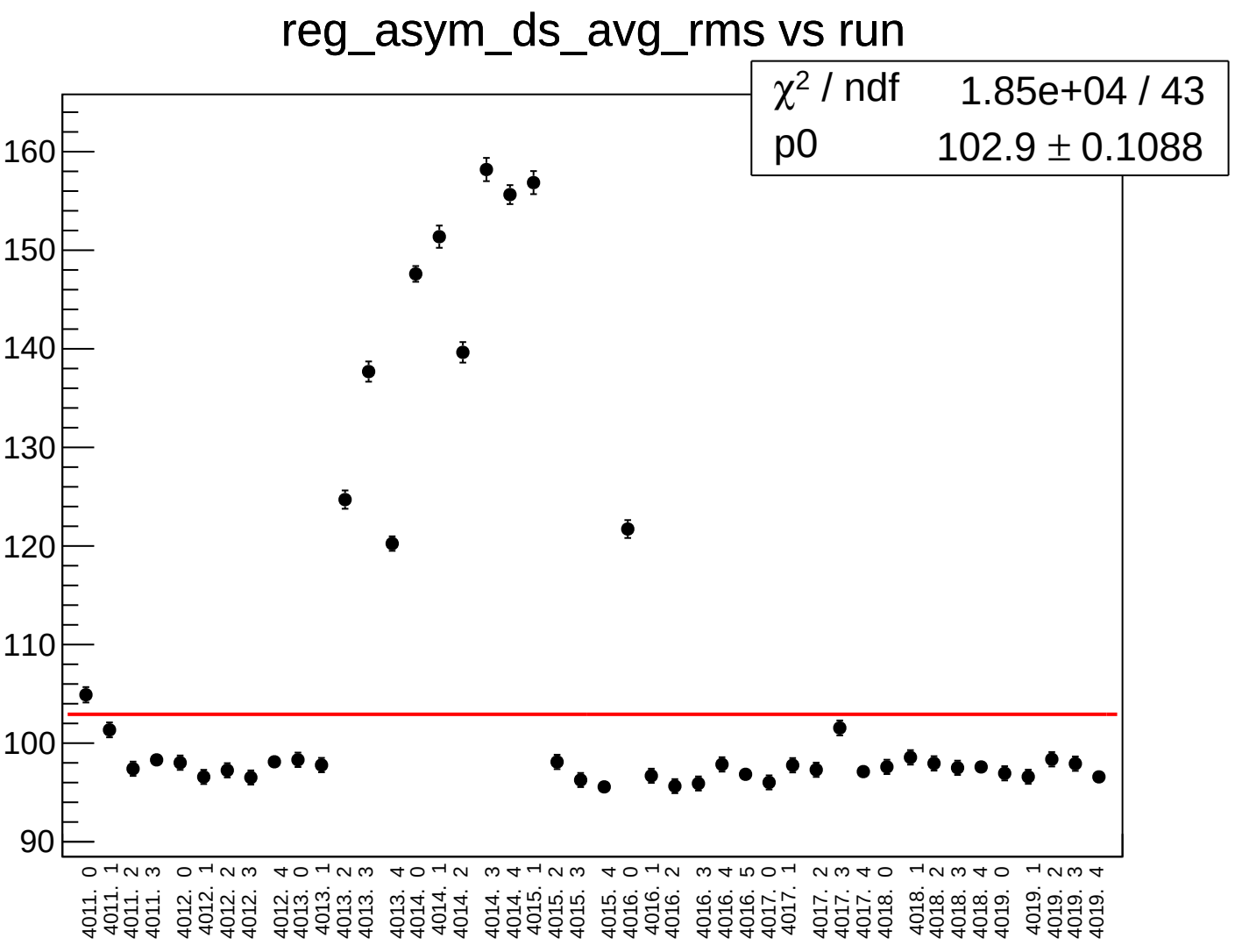

asym_us_dd_correction_rms vs run
χ^2 / ndf 2898 / 43
p0 450 ± 0.4715
500
480
460
440
420
400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

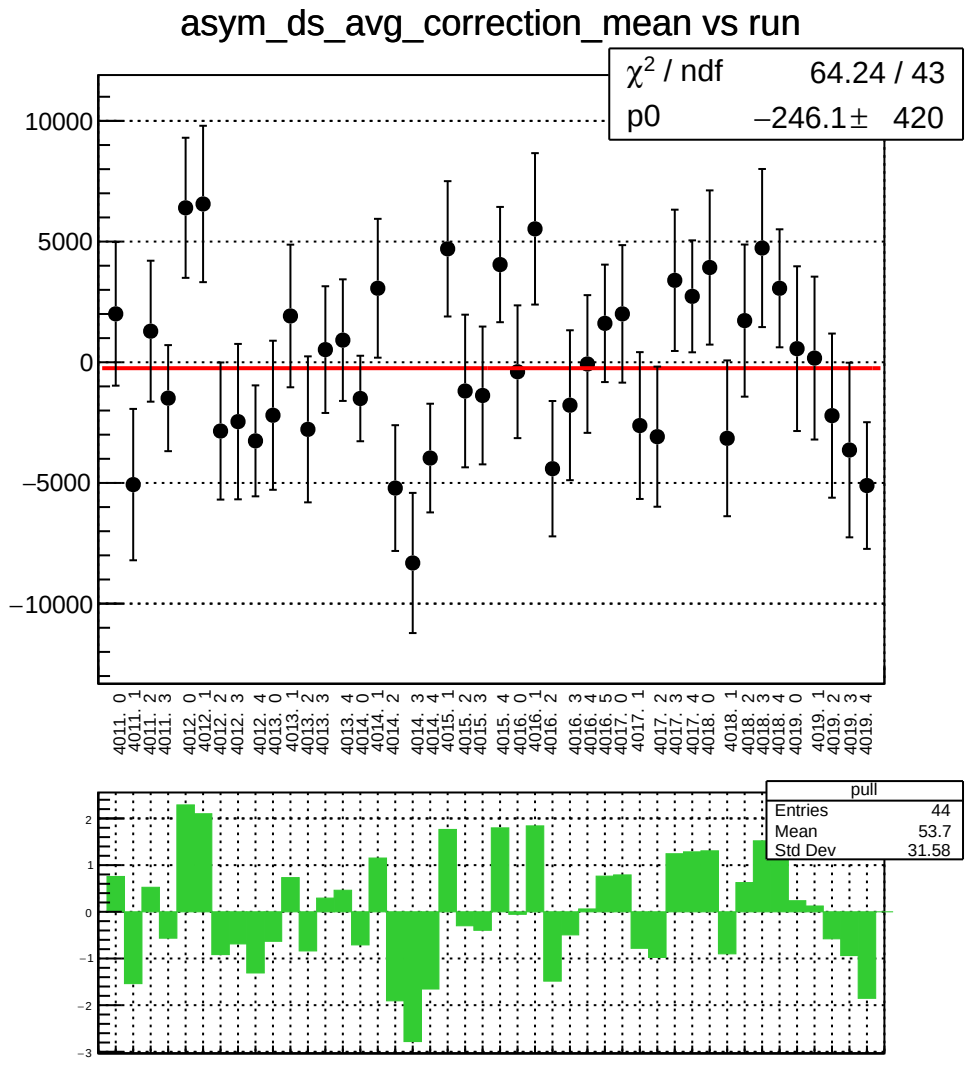

asym_us_dd_mean vs run
χ^2 / ndf 39.52 / 43
p0 68.44 ± 680.6
20000
15000
10000
5000
0
−5000
−10000
−15000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −17.3
Std Dev 32.38
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean −0.01611
Std Dev 0.9476
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

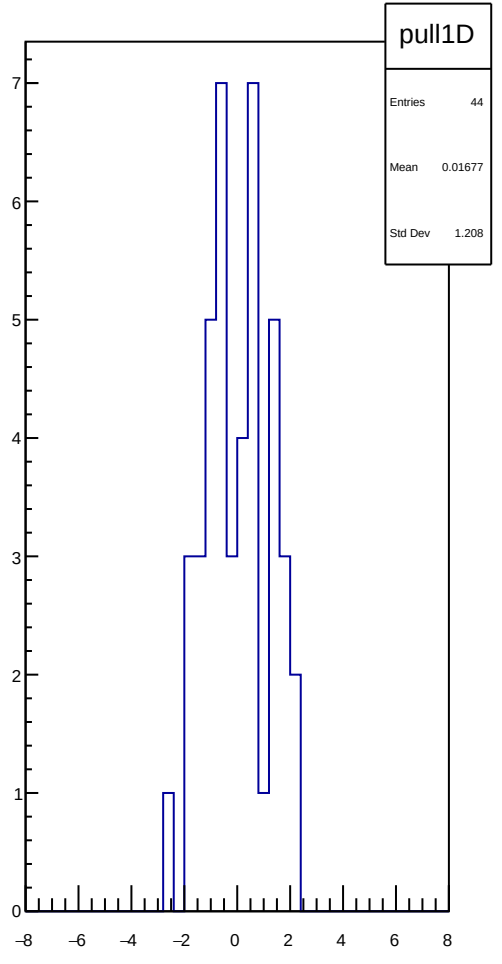

asym_us_dd_rms vs run
χ² / ndf 2674 / 43
p0 459.4 ± 0.4812
500
480
460
440
420
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

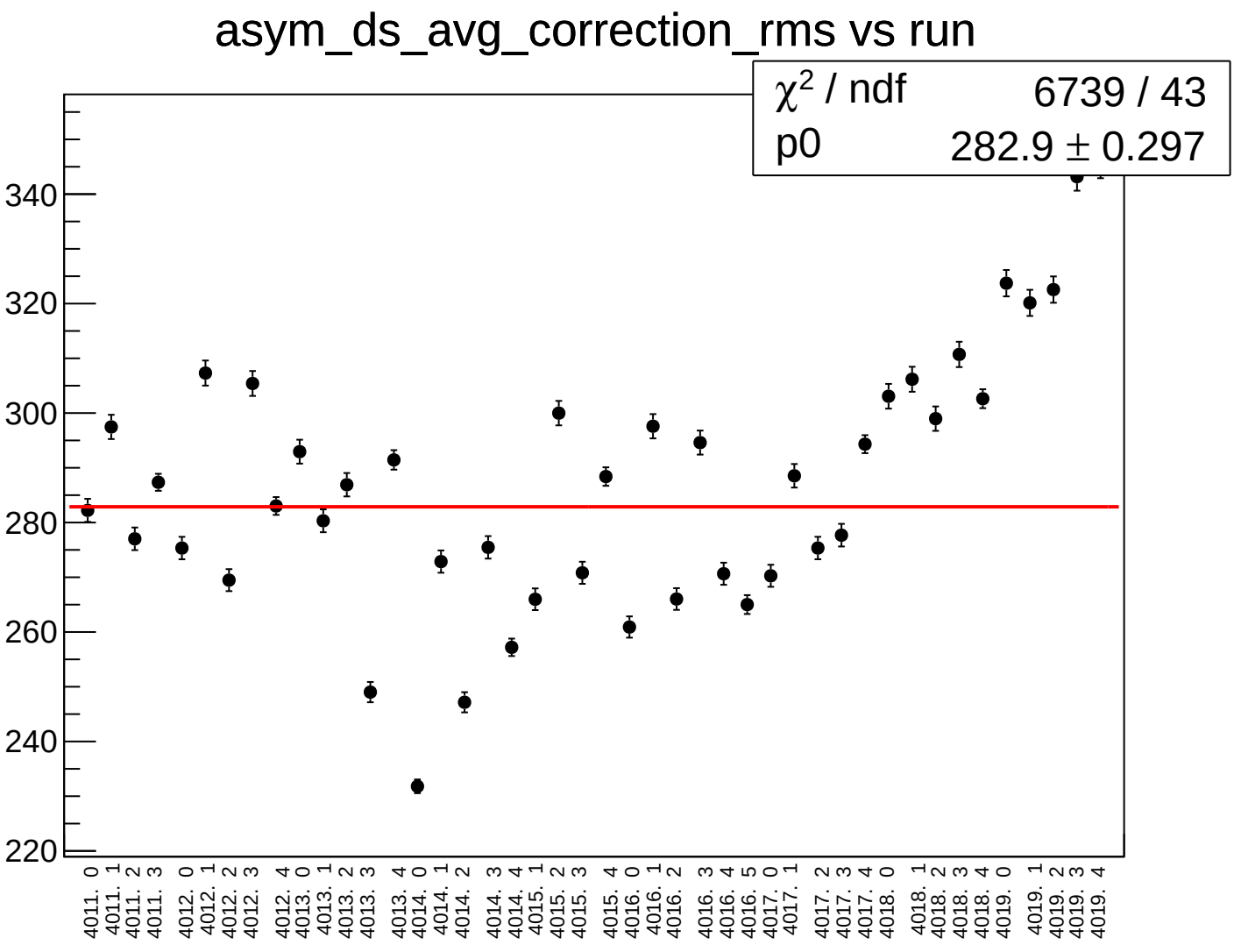

reg_asym_ds_avg_mean vs run
χ² / ndf 39.99 / 43
p0 427.5 ± 153.8
pull
Entries 44
Mean −168
Std Dev 196

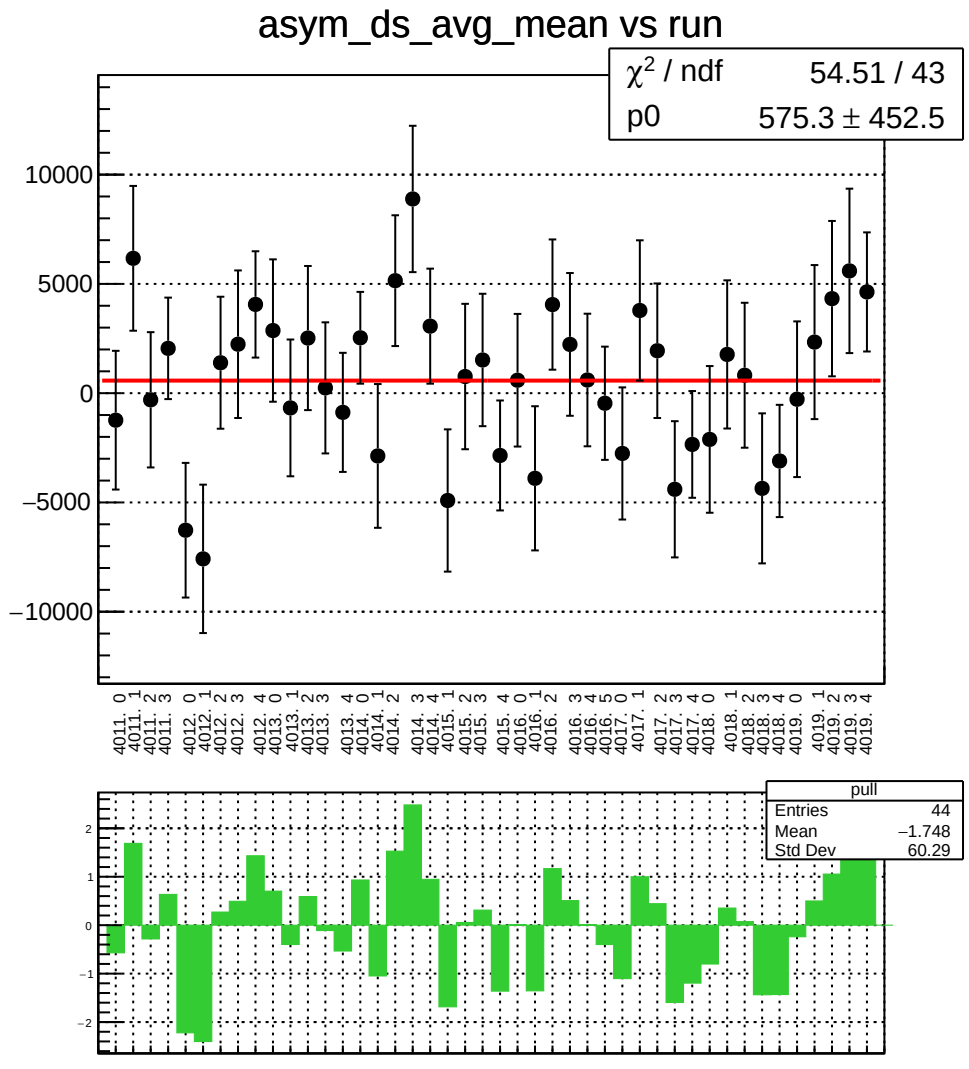

pull1D
Entries 44
Mean −0.00995
Std Dev 0.9533

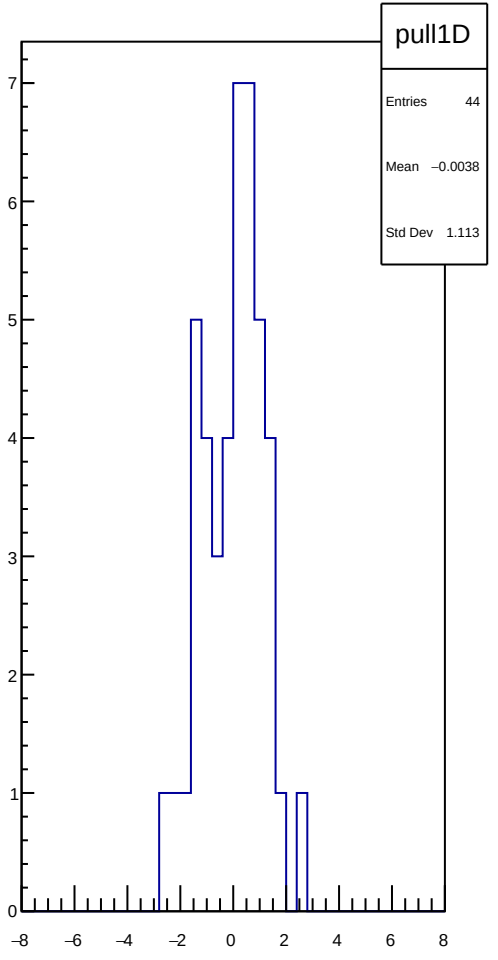

reg_asym_ds_avg_rms vs run
χ² / ndf 1.85e+04 / 43
p0 102.9 ± 0.1088
160
150
140
130
120
110
100
90
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

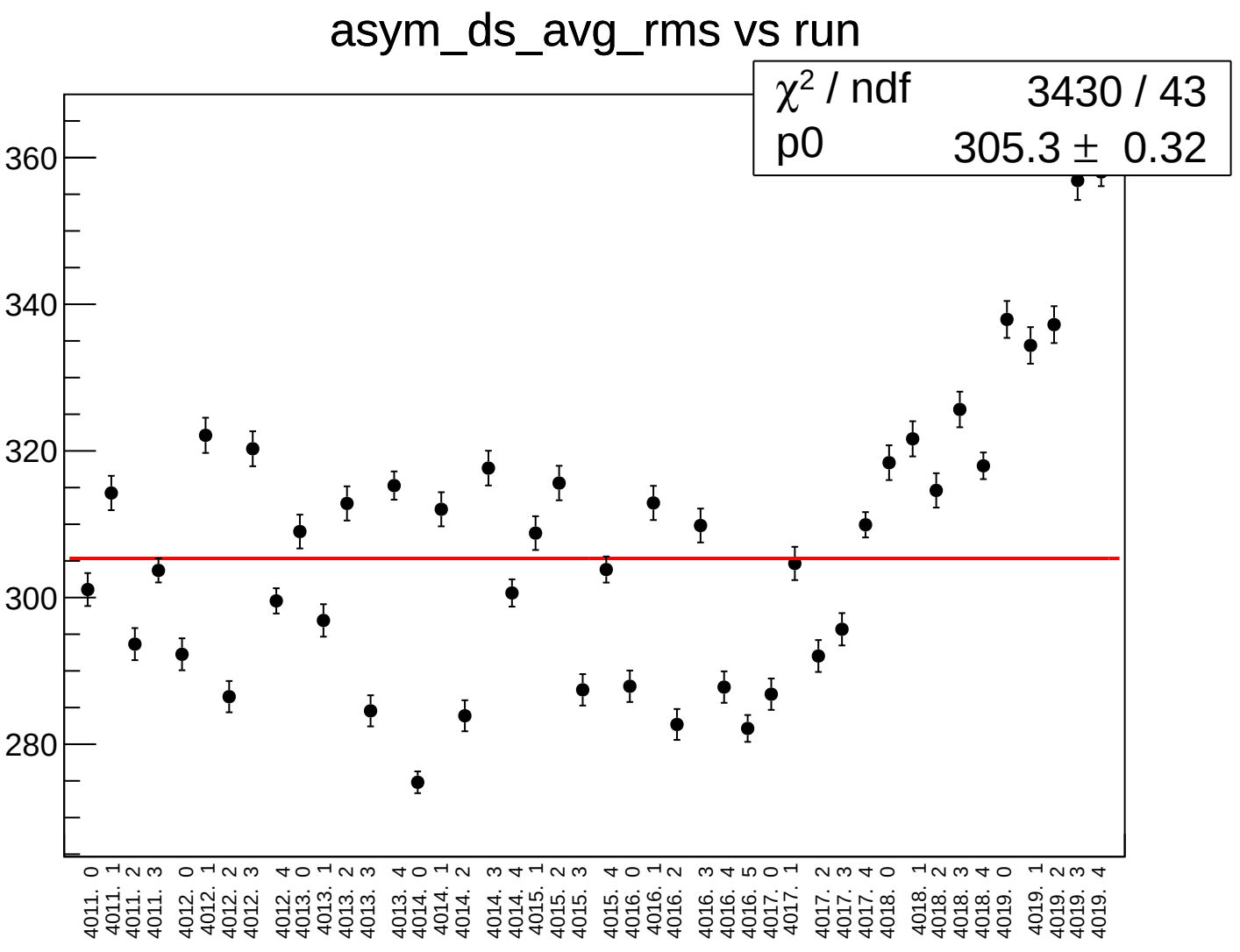

asym_ds_avg_correction_mean vs run
χ² / ndf 64.24 / 43
p0 −246.1± 420
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 53.7
Std Dev 31.58
2
1
0
−1
−2
−3

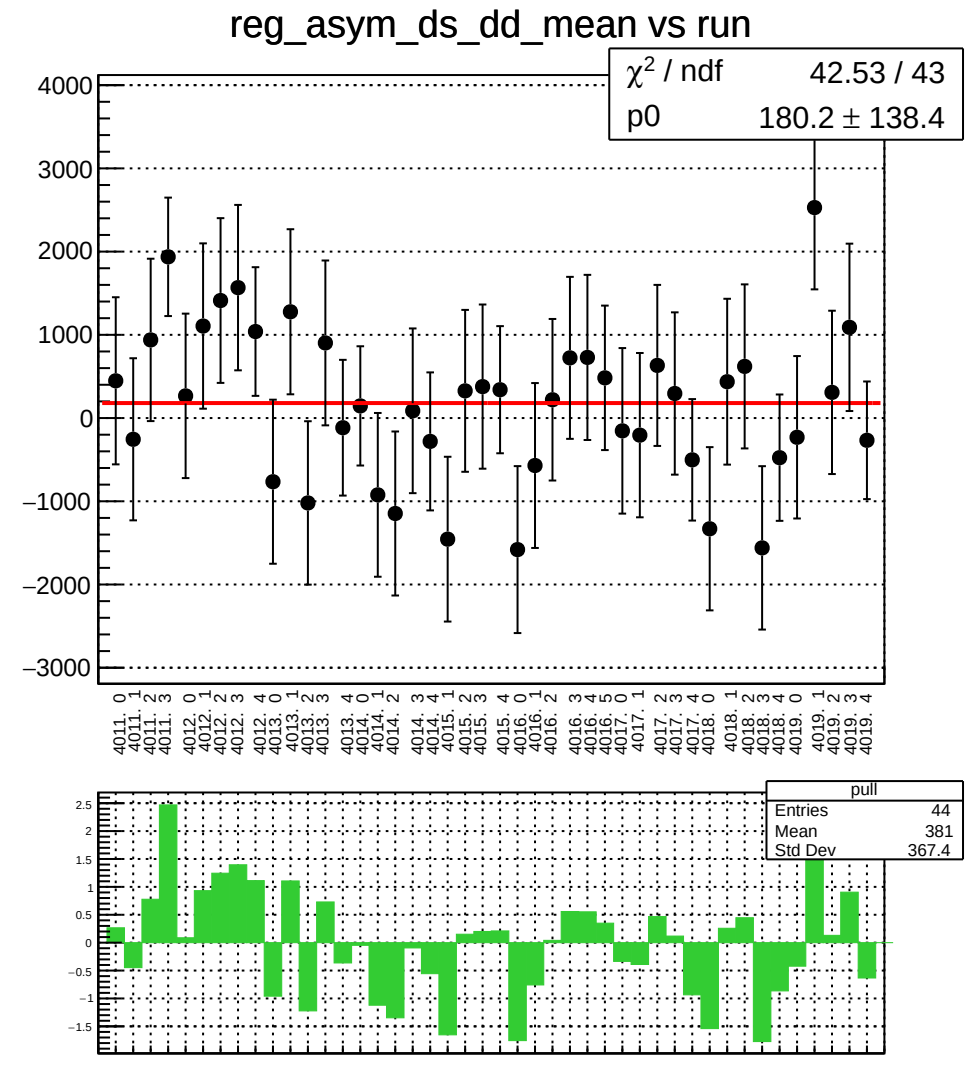

pull1D
Entries 44
Mean 0.01677
Std Dev 1.208
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

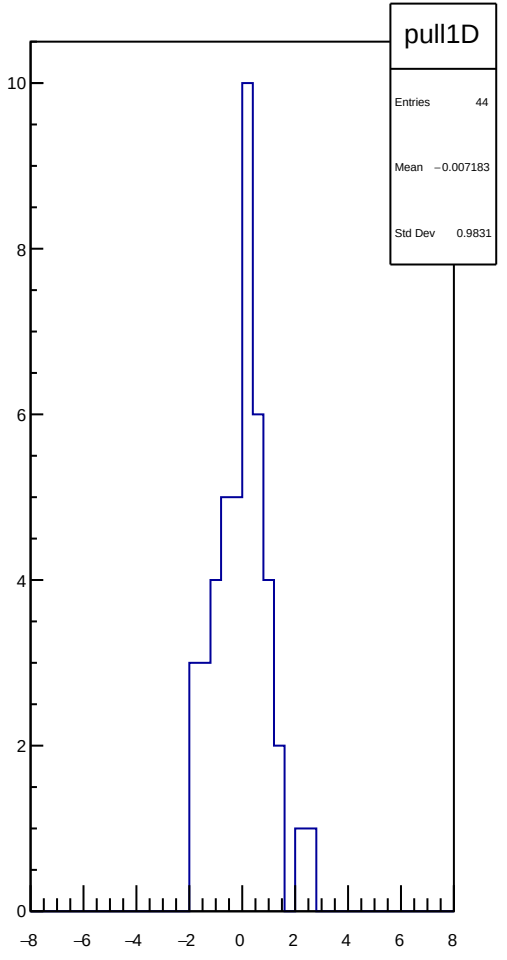

asym_ds_avg_correction_rms vs run
χ² / ndf 6739 / 43
p0 282.9 ± 0.297
340
320
300
280
260
240
220
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

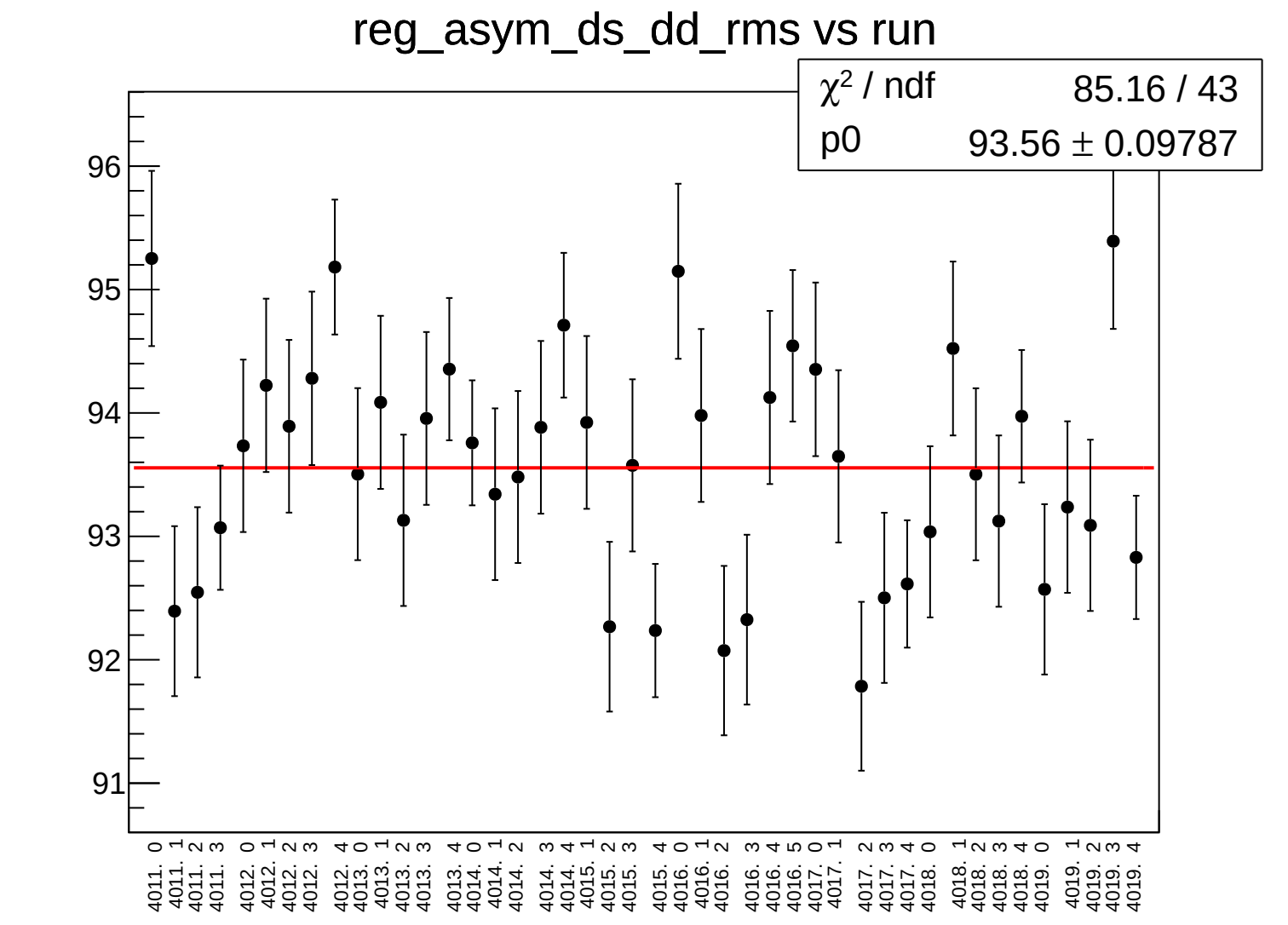

asym_ds_avg_mean vs run
χ² / ndf 54.51 / 43
p0 575.3 ± 452.5
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −1.748
Std Dev 60.29
2
1
0
−1
−2

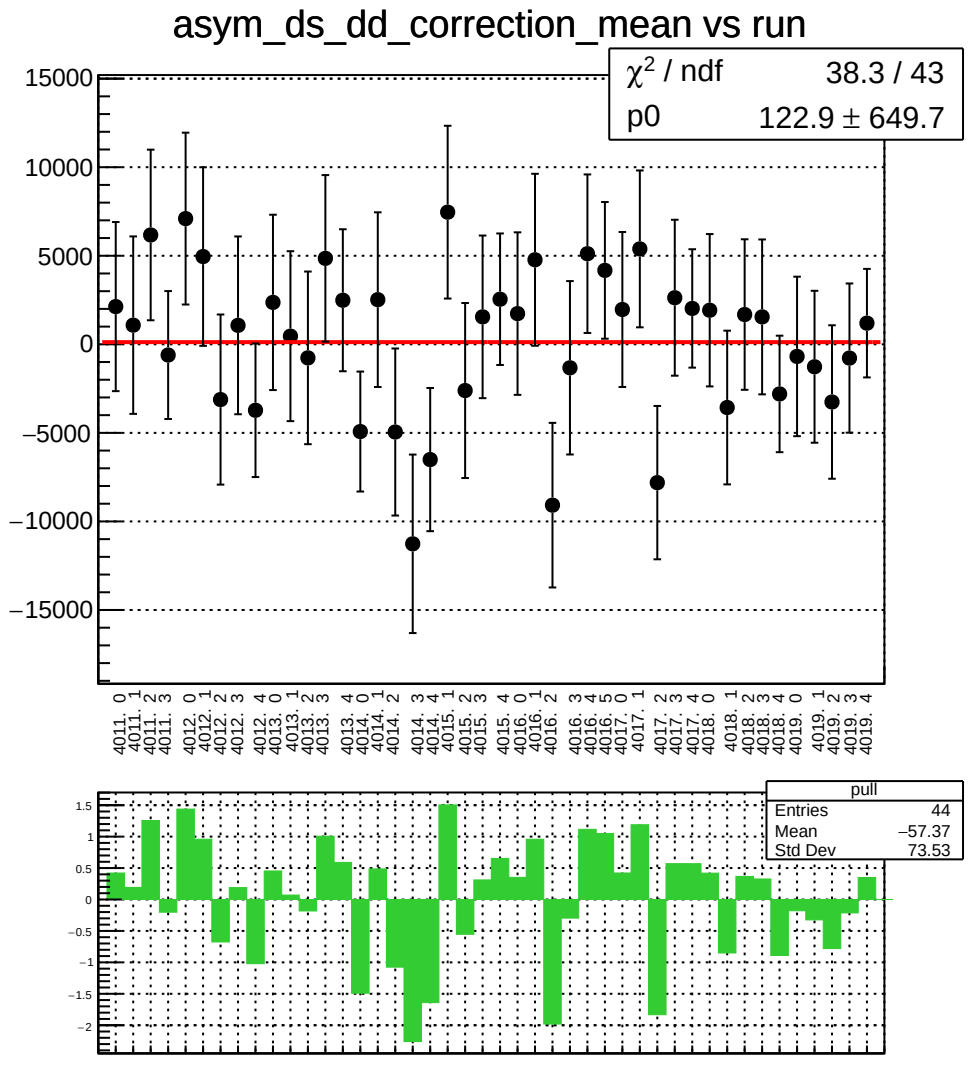

pull1D
Entries 44
Mean −0.0038
Std Dev 1.113
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

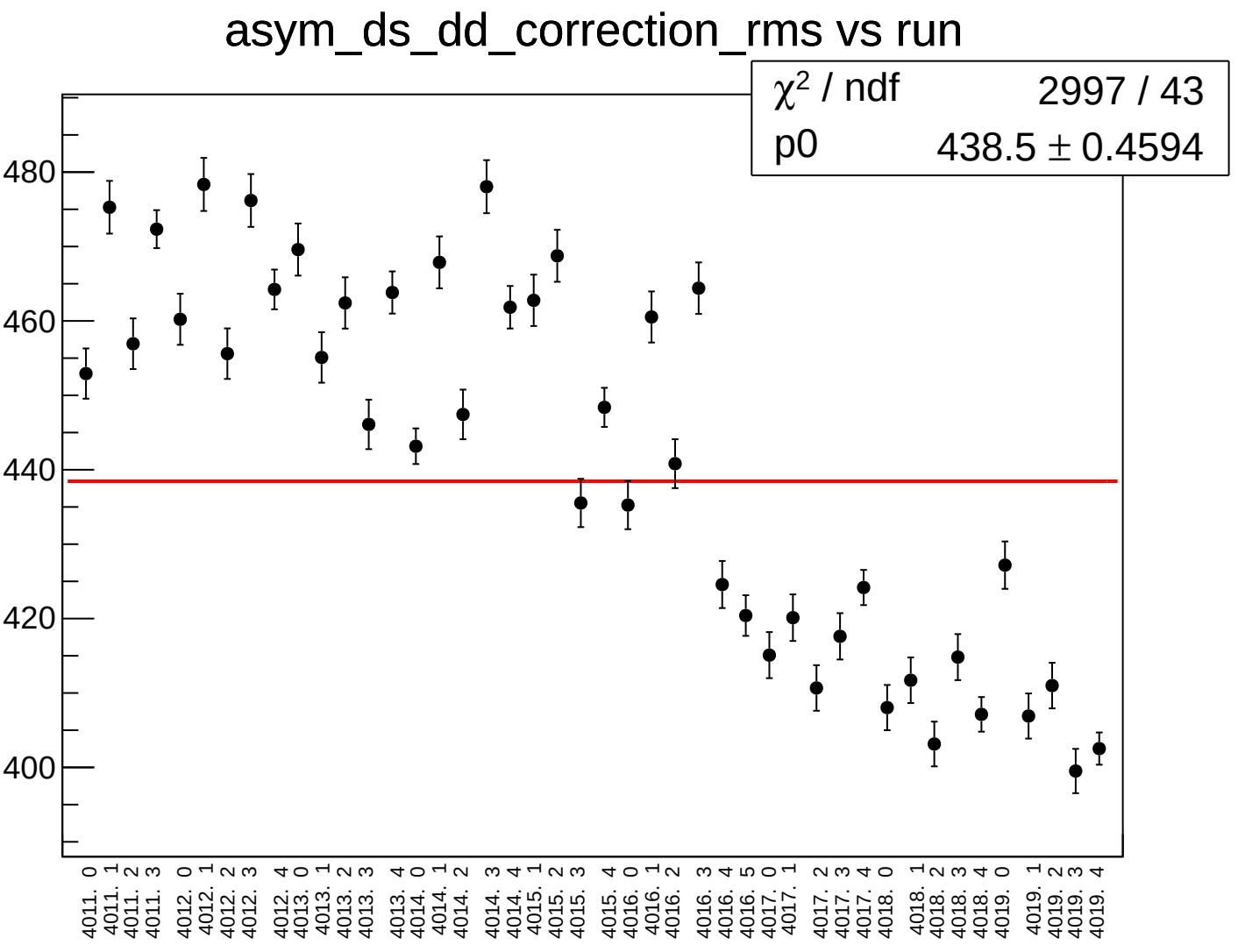

asym_ds_avg_rms vs run
χ² / ndf 3430 / 43
p0 305.3 ± 0.32
360
340
320
300
280
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

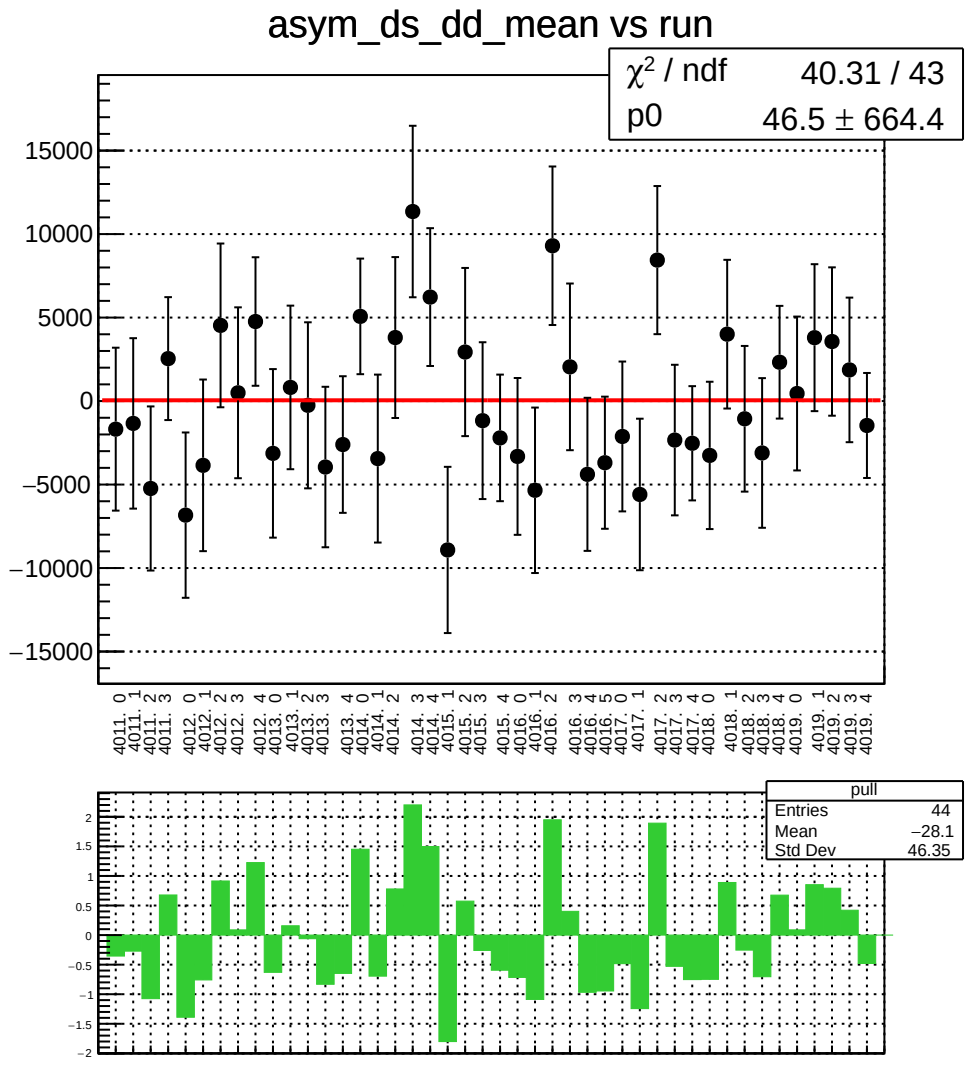

reg_asym_ds_dd_mean vs run
χ² / ndf 42.53 / 43
p0 180.2 ± 138.4
4000
3000
2000
1000
0
−1000
−2000
−3000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4016. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 381
Std Dev 367.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

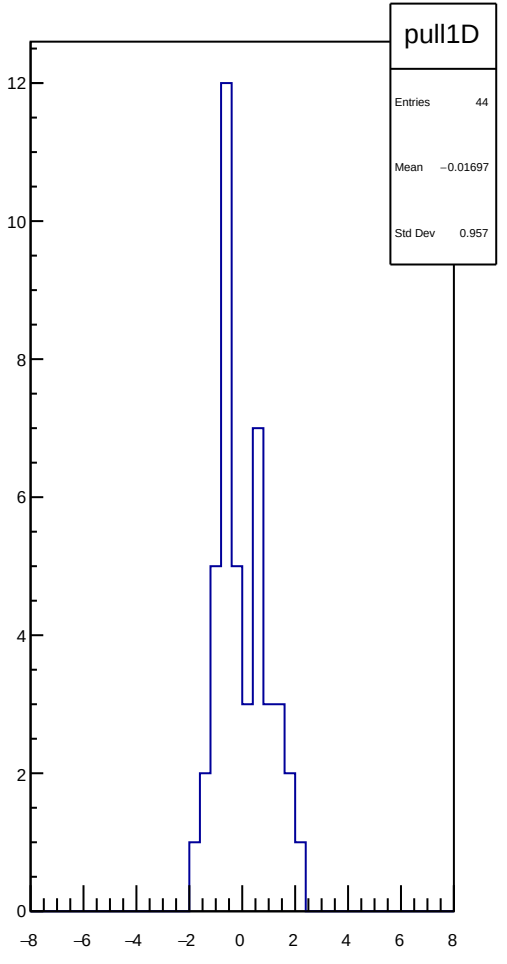

pull1D
Entries 44
Mean −0.007183
Std Dev 0.9831
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

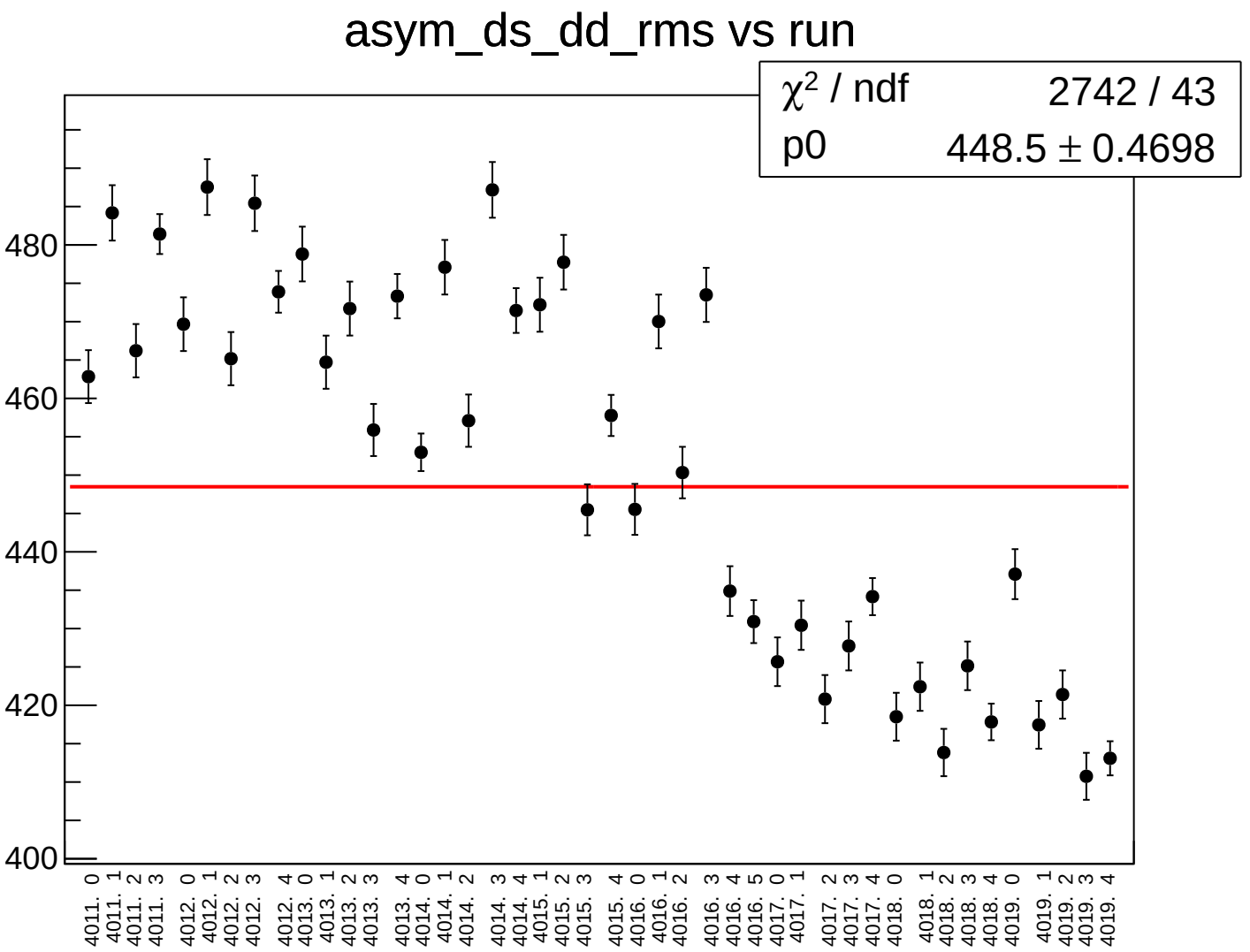

reg_asym_ds_dd_rms vs run
χ² / ndf 85.16 / 43
p0 93.56 ± 0.09787
96
95
94
93
92
91
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

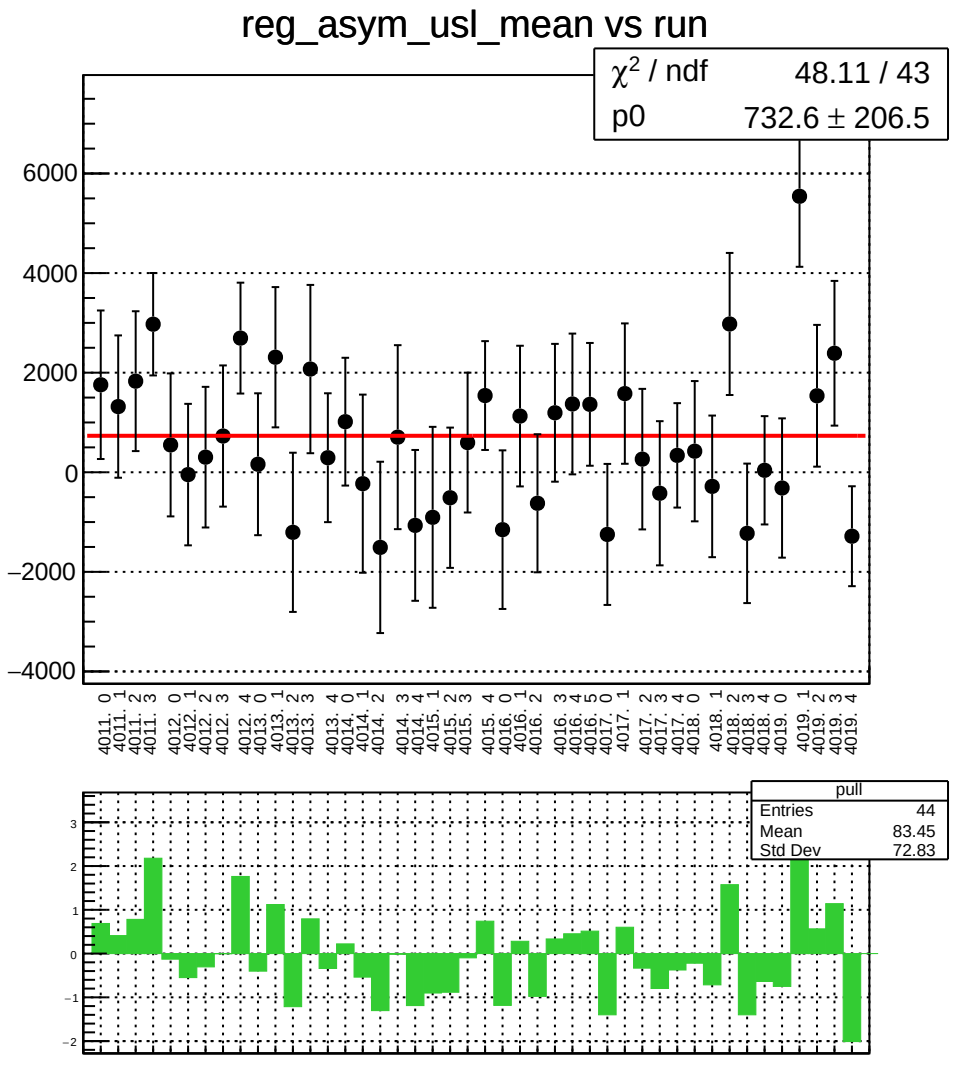

asym_ds_dd_correction_mean vs run
χ² / ndf 38.3 / 43
p0 122.9 ± 649.7
15000
10000
5000
0
−5000
−10000
−15000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4016. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −57.37
Std Dev 73.53
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean 0.01747
Std Dev 0.9328
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

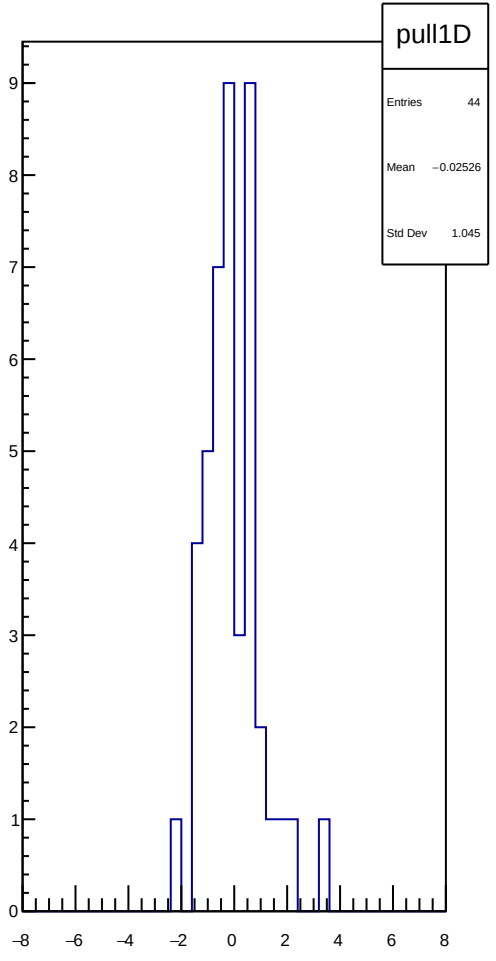

asym_ds_dd_correction_rms vs run
χ² / ndf 2997 / 43
p0 438.5 ± 0.4594
480
460
440
420
400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

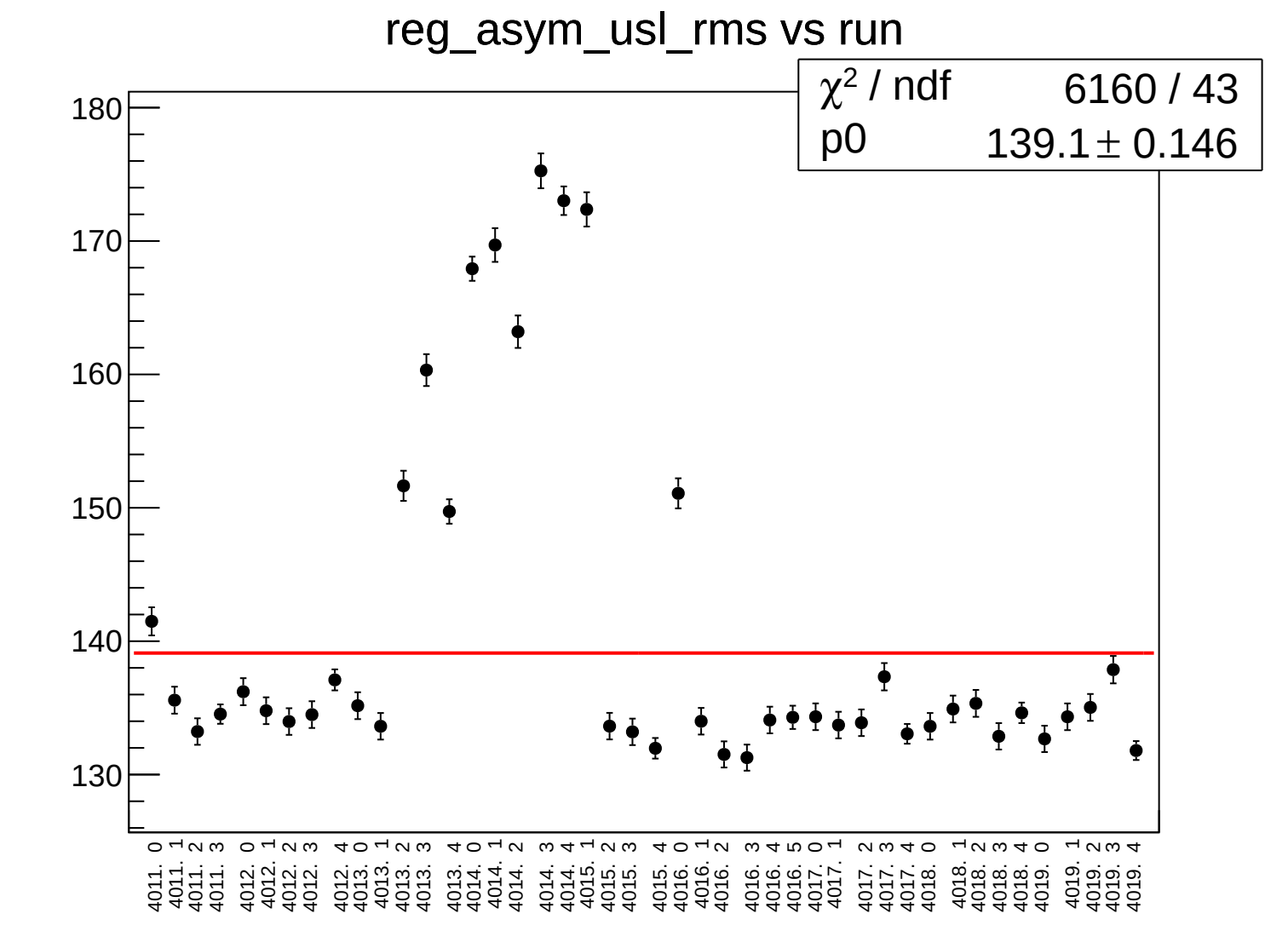

asym_ds_dd_mean vs run
χ² / ndf 40.31 / 43
p0 46.5 ± 664.4
15000
10000
5000
0
−5000
−10000
−15000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −28.1
Std Dev 46.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

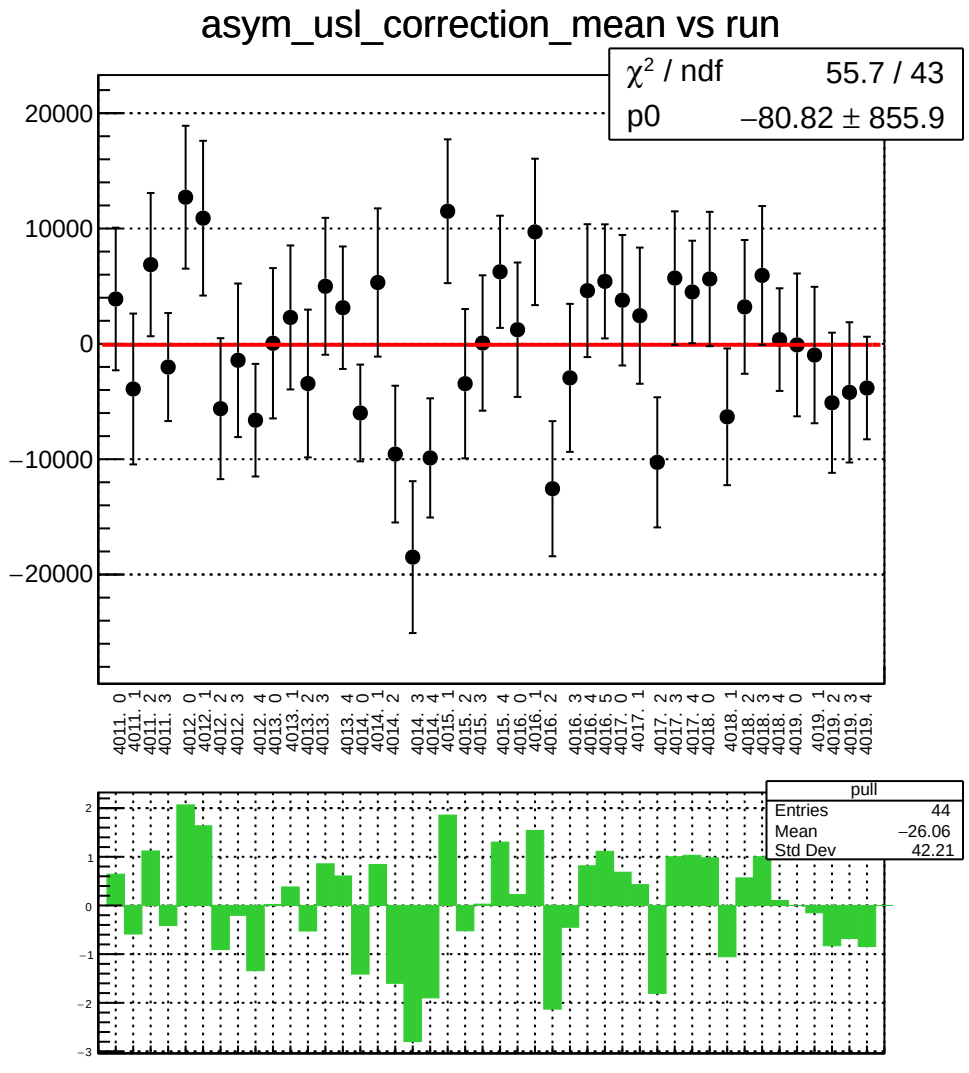

pull1D
Entries 44
Mean −0.01697
Std Dev 0.957
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

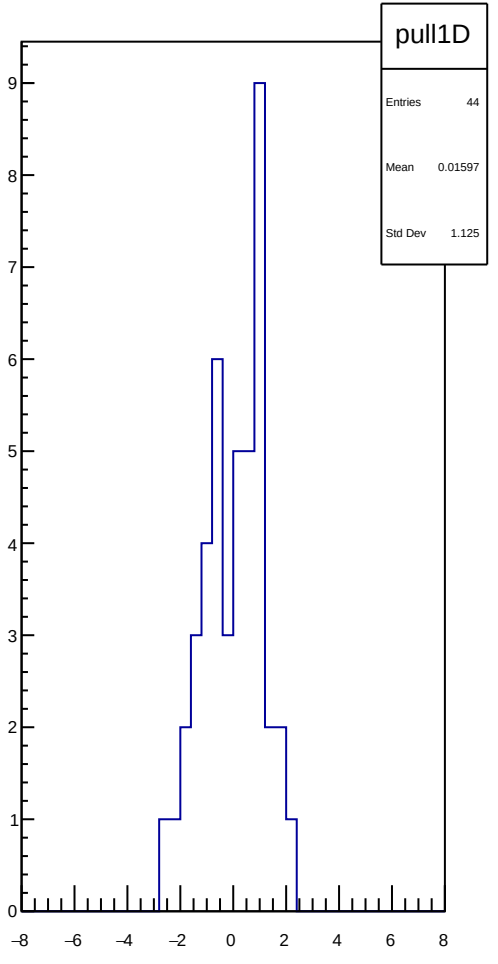

asym_ds_dd_rms vs run
χ² / ndf 2742 / 43
p0 448.5 ± 0.4698
480
460
440
420
400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

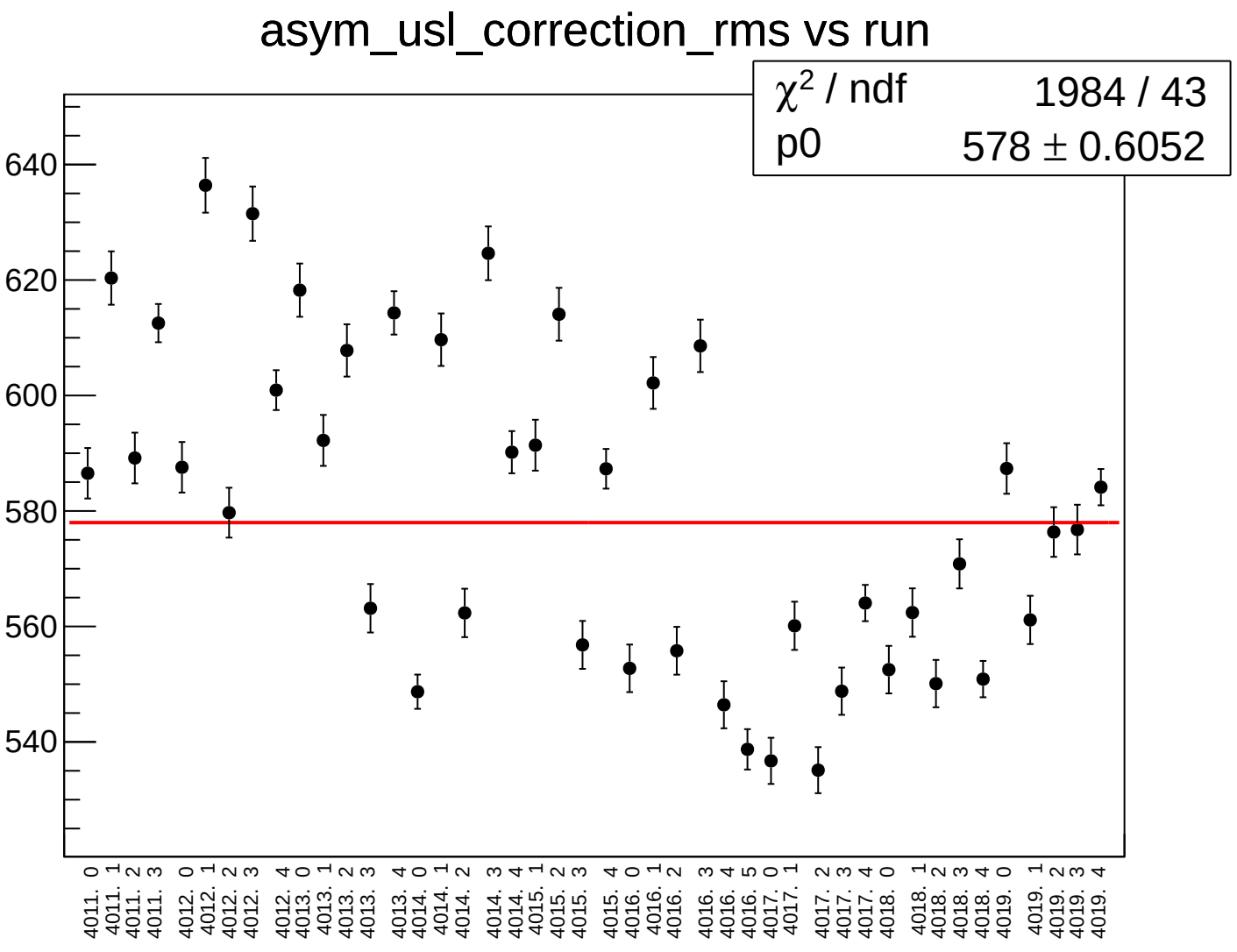

reg_asym_usl_mean vs run
χ^2 / ndf 48.11 / 43
p0 732.6 ± 206.5
6000
4000
2000
0
−2000
−4000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 83.45
Std Dev 72.83
3
2
1
0
−1
−2

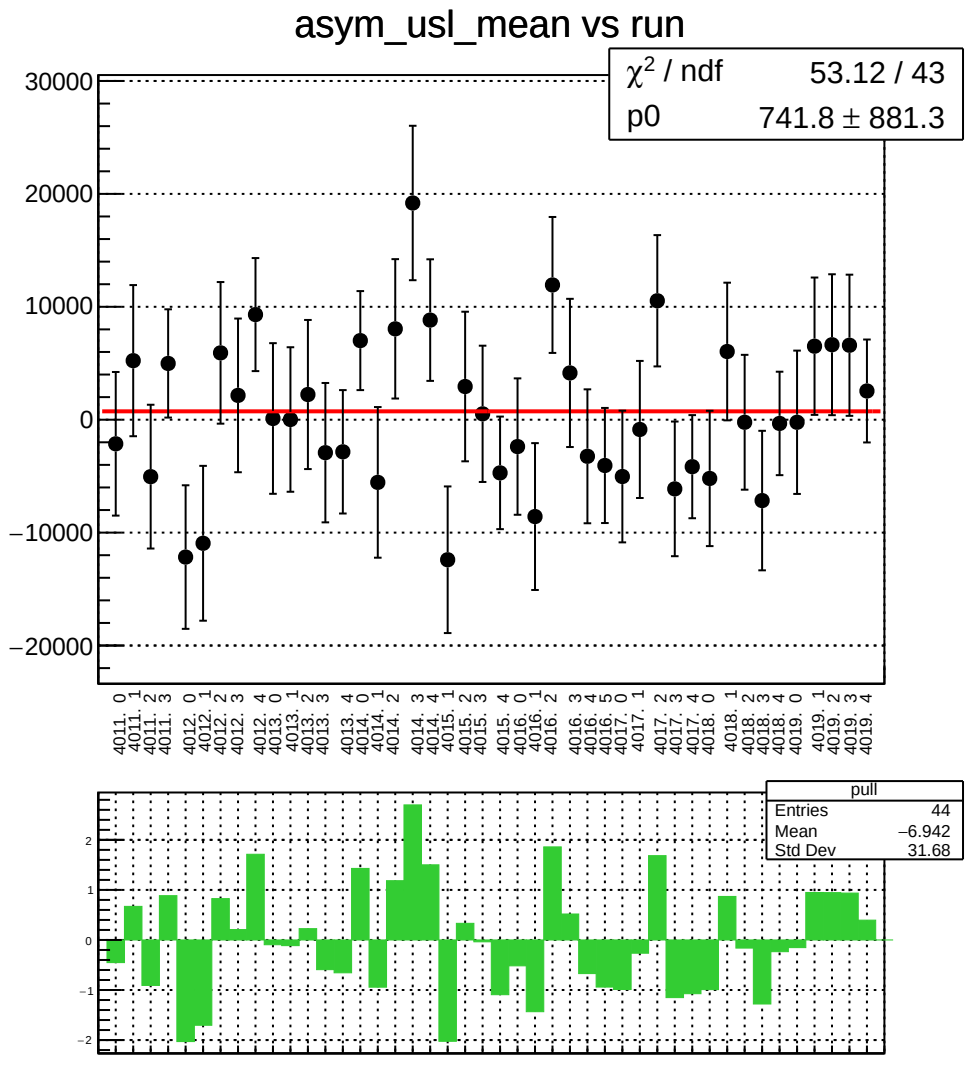

pull1D
Entries 44
Mean −0.02526
Std Dev 1.045
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

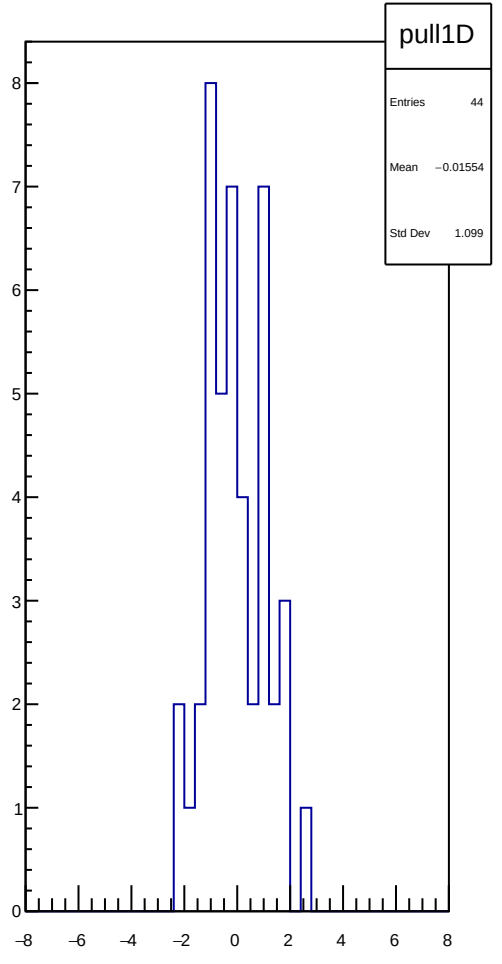

reg_asym_usl_rms vs run
χ² / ndf 6160 / 43
p0 139.1 ± 0.146
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

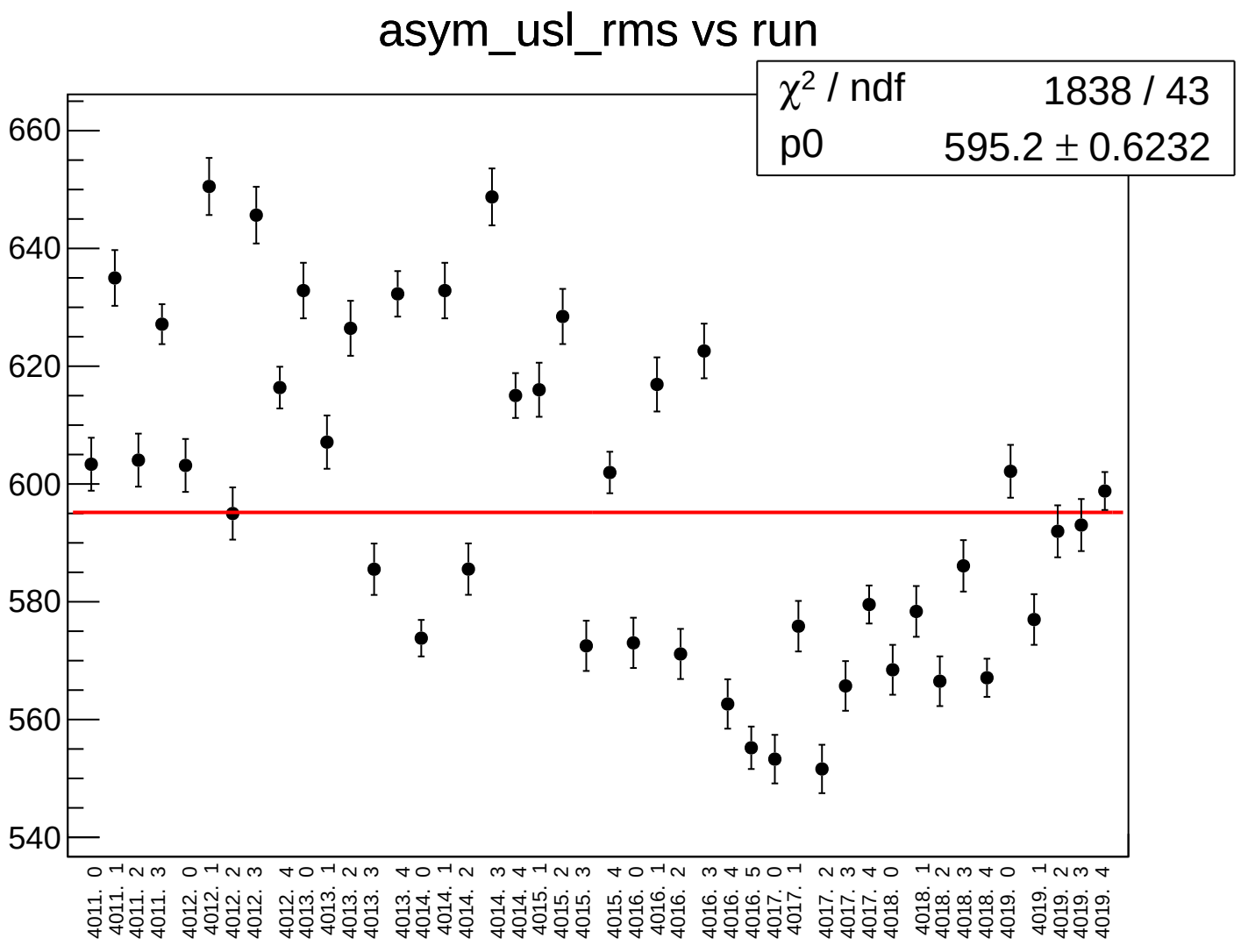

asym_usl_correction_mean vs run
χ² / ndf 55.7 / 43
p0 −80.82 ± 855.9
20000
10000
0
−10000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −26.06
Std Dev 42.21
2
1
0
−1
−2
−3

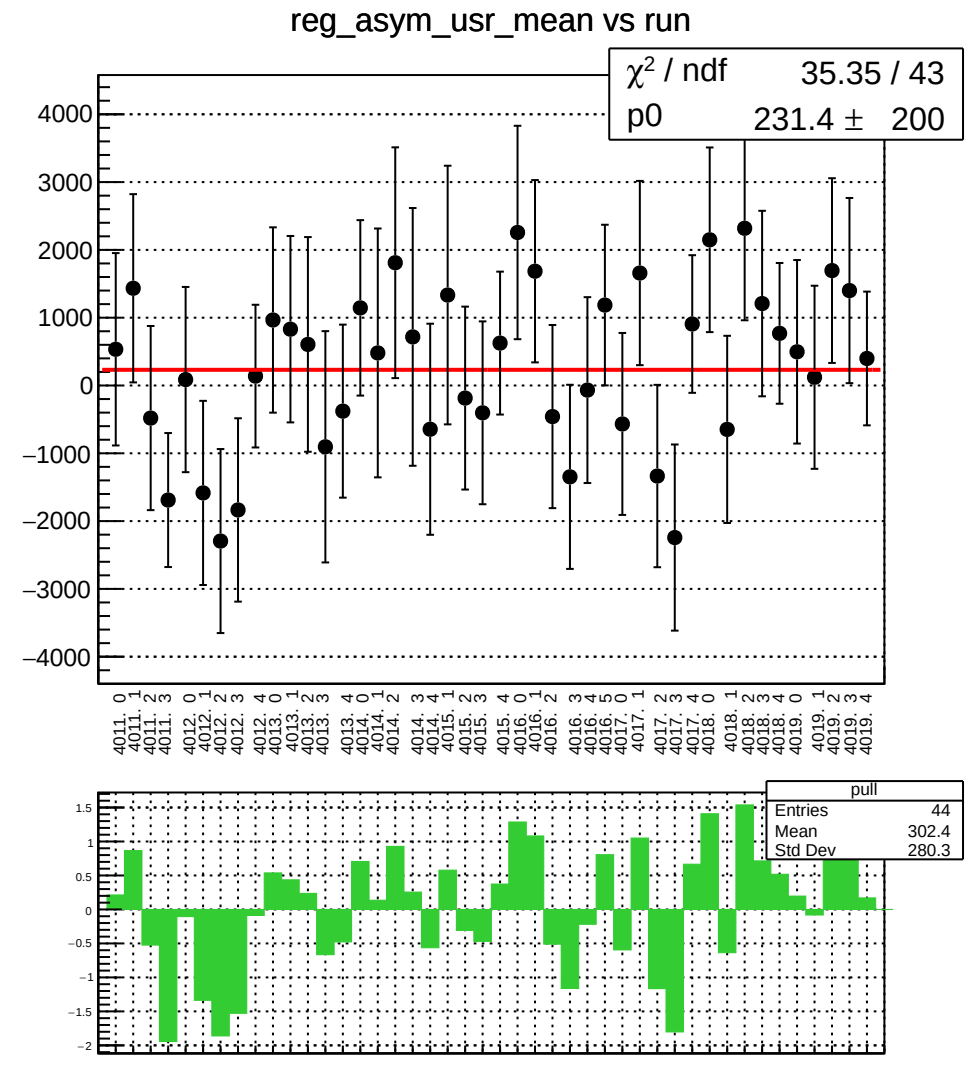

pull1D
Entries 44
Mean 0.01597
Std Dev 1.125
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

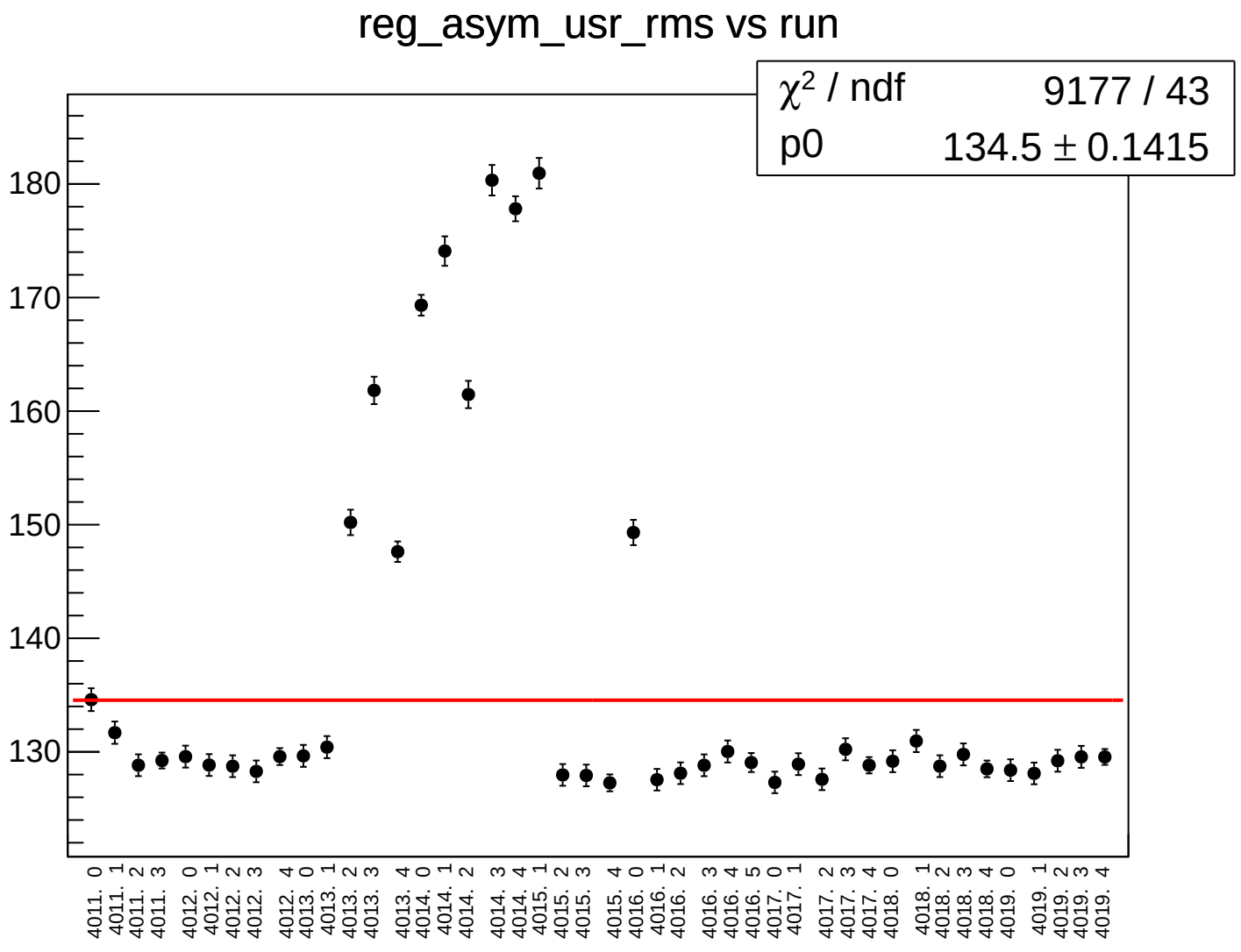

asym_usl_correction_rms vs run
χ² / ndf 1984 / 43
p0 578 ± 0.6052
640
620
600
580
560
540
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

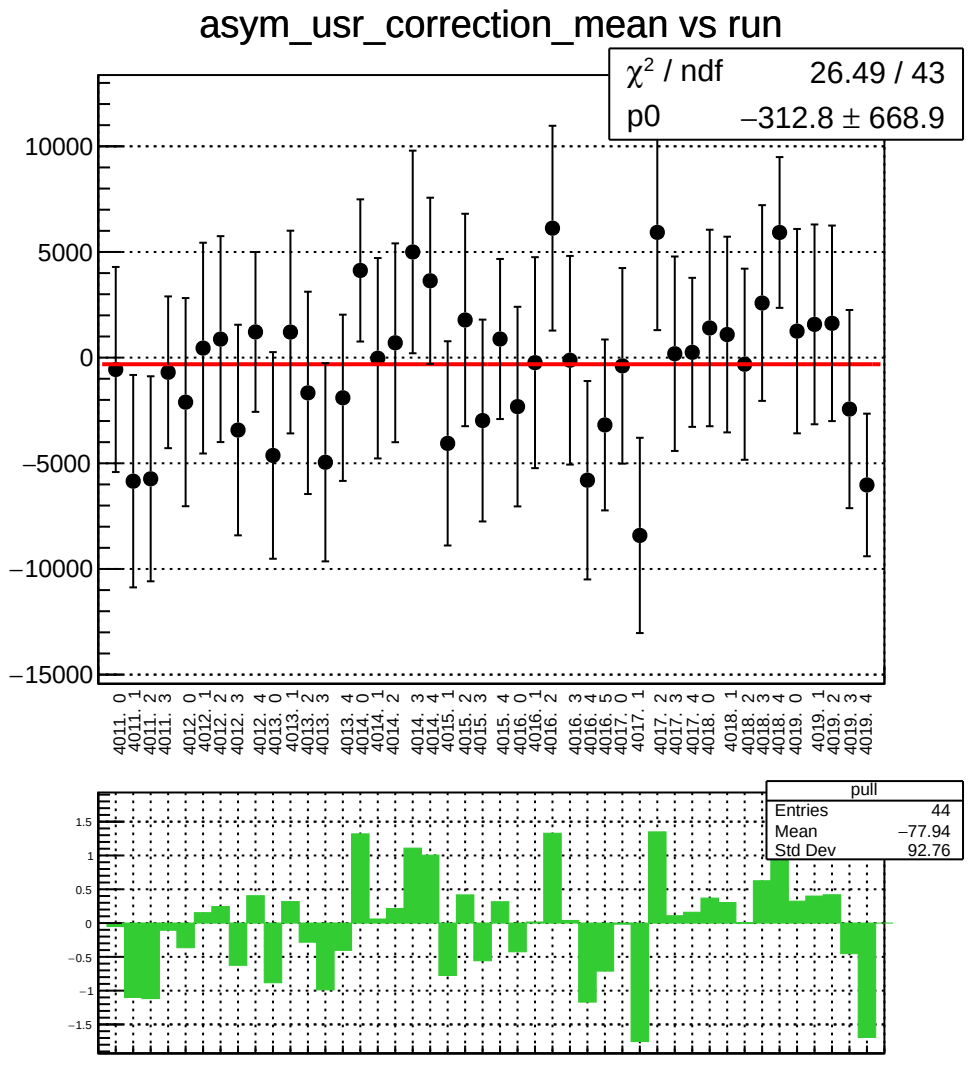

asym_usl_mean vs run
χ² / ndf 53.12 / 43
p0 741.8 ± 881.3
30000
20000
10000
0
−10000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −6.942
Std Dev 31.68
2
1
0
−1
−2

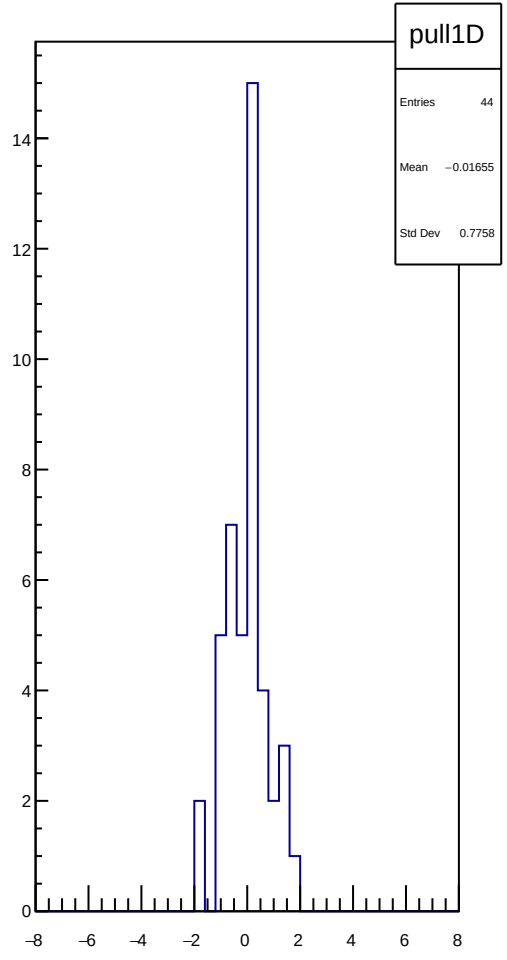

pull1D
Entries 44
Mean −0.01554
Std Dev 1.099
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

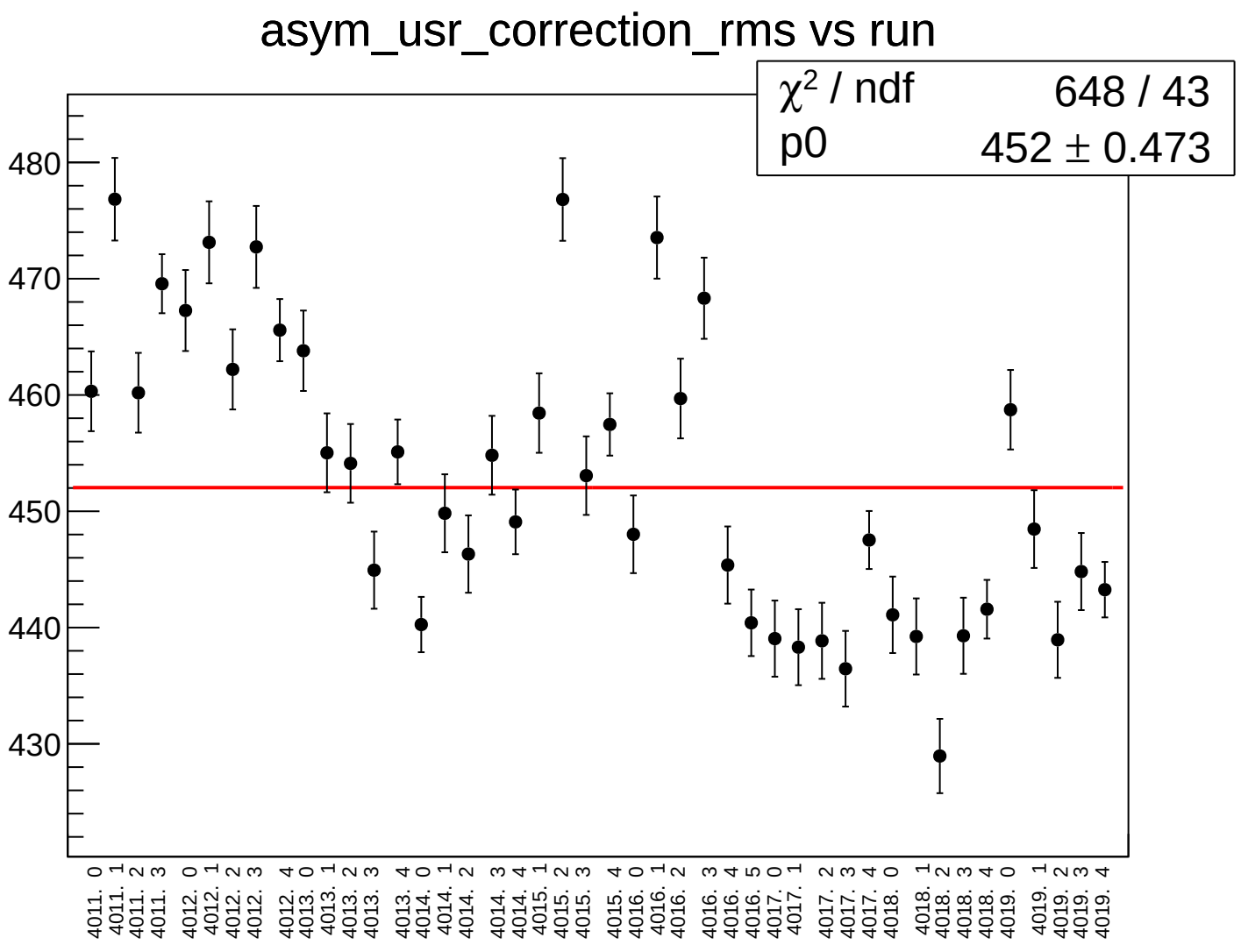

asym_usl_rms vs run
χ² / ndf 1838 / 43
p0 595.2 ± 0.6232
660
640
620
600
580
560
540
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

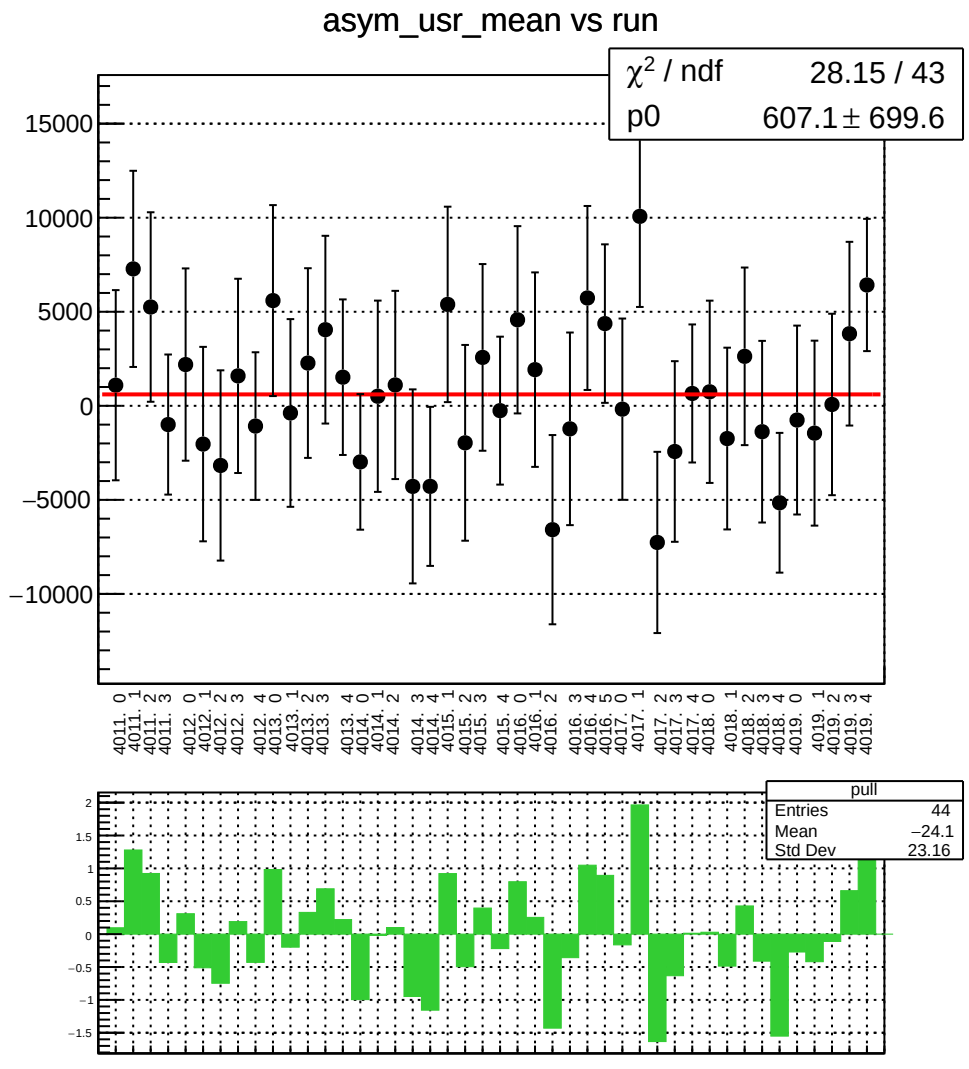

reg_asym_usr_mean vs run
χ² / ndf 35.35 / 43
p0 231.4 ± 200
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 302.4
Std Dev 280.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean 0.01328
Std Dev 0.8962
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

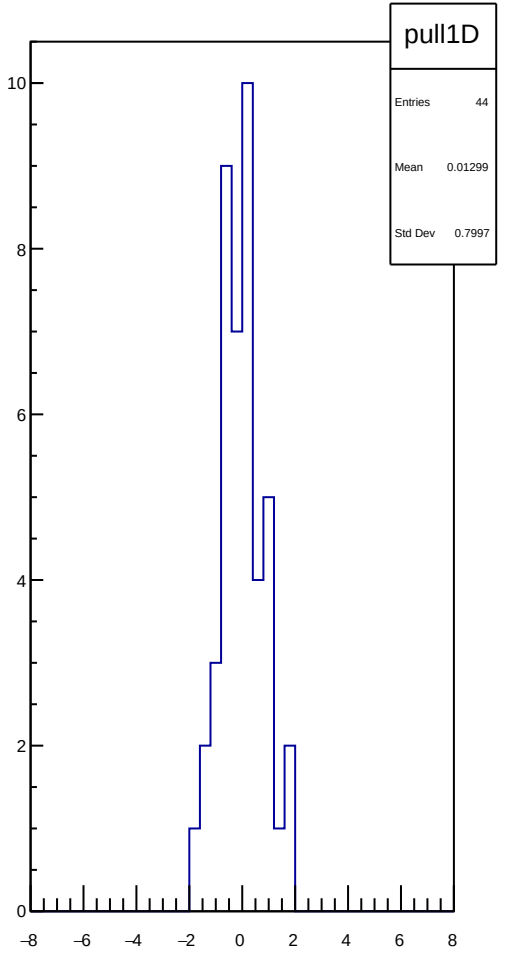

reg_asym_usr_rms vs run
χ² / ndf 9177 / 43
p0 134.5 ± 0.1415
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

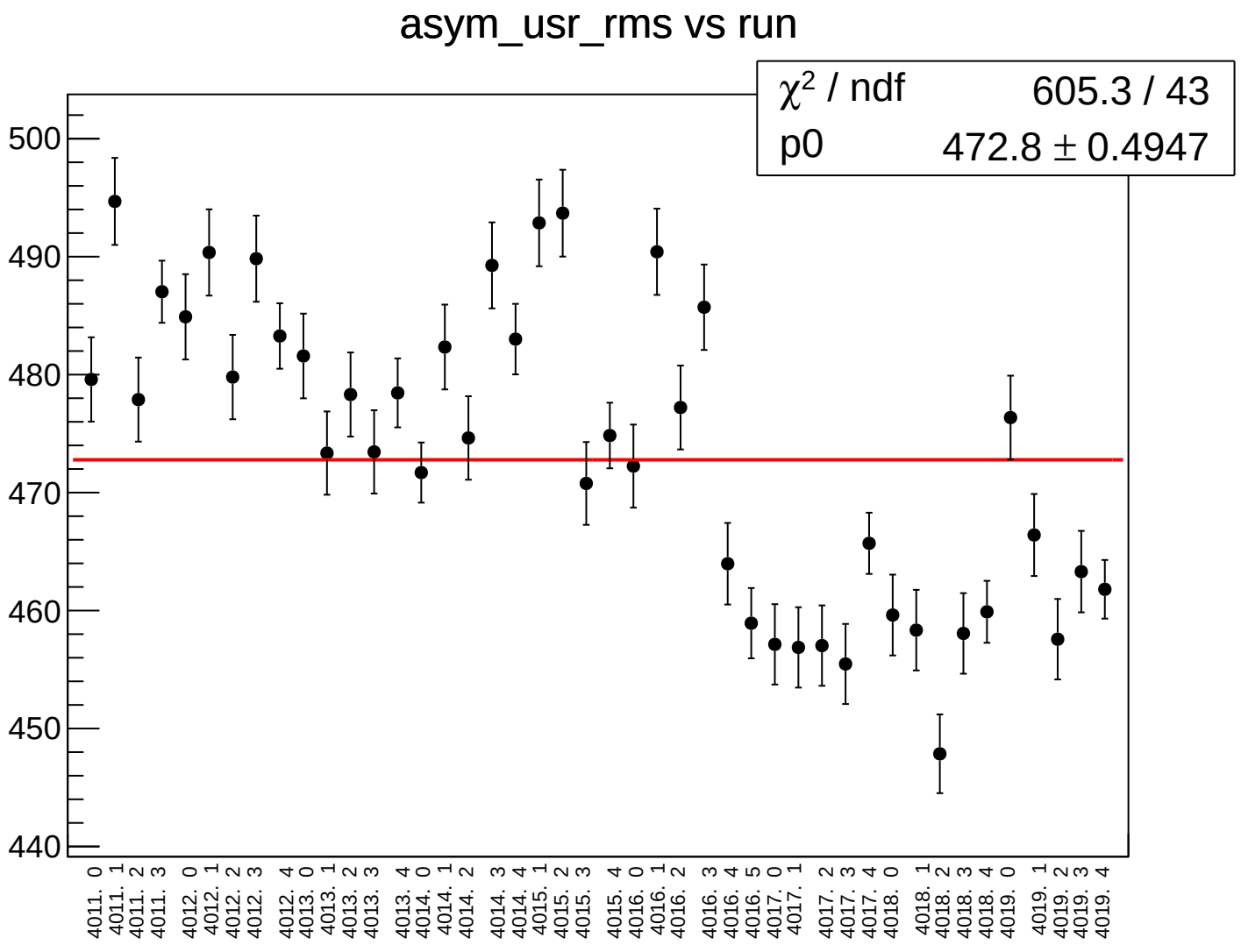

asym_usr_correction_mean vs run
χ² / ndf 26.49 / 43
p0 −312.8 ± 668.9
10000
5000
0
−5000
−10000
−15000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −77.94
Std Dev 92.76
1.5
1
0.5
0
−0.5
−1
−1.5

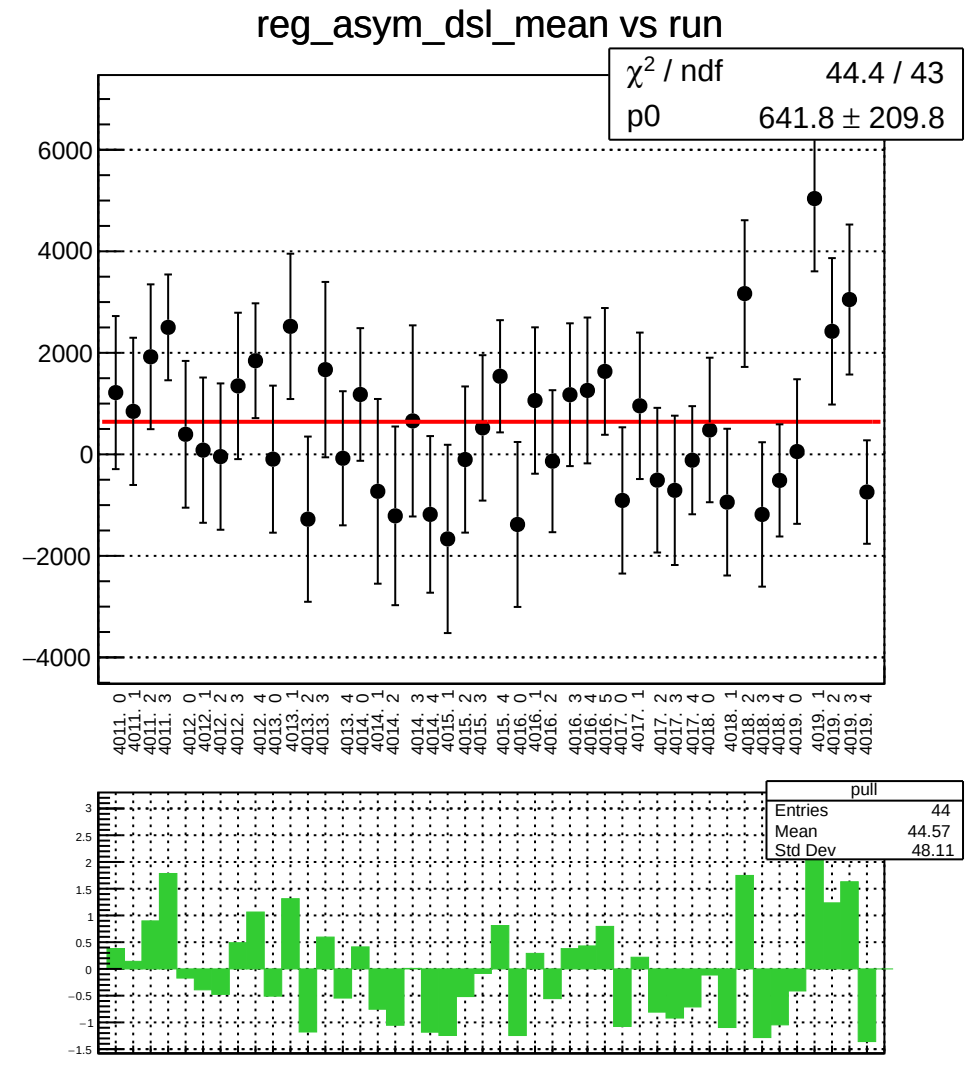

pull1D
Entries 44
Mean −0.01655
Std Dev 0.7758
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

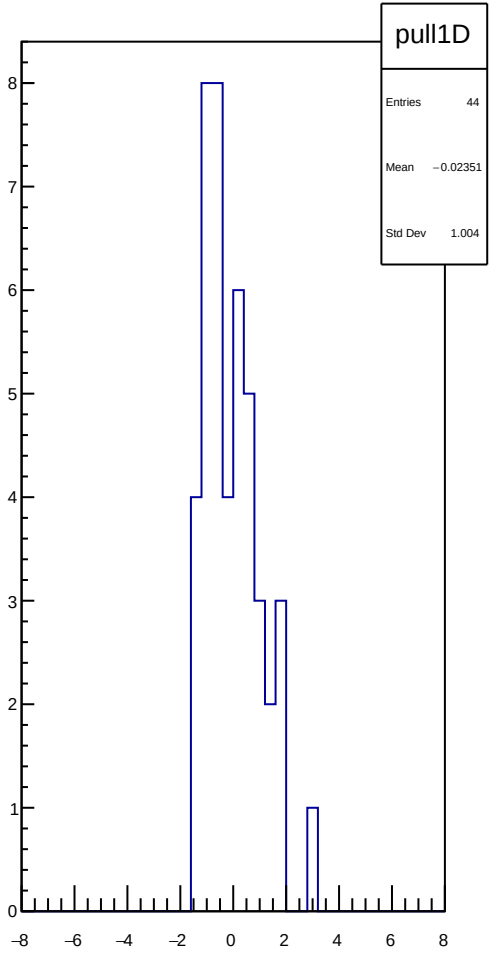

asym_usr_correction_rms vs run
χ² / ndf 648 / 43
p0 452 ± 0.473
480
470
460
450
440
430
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

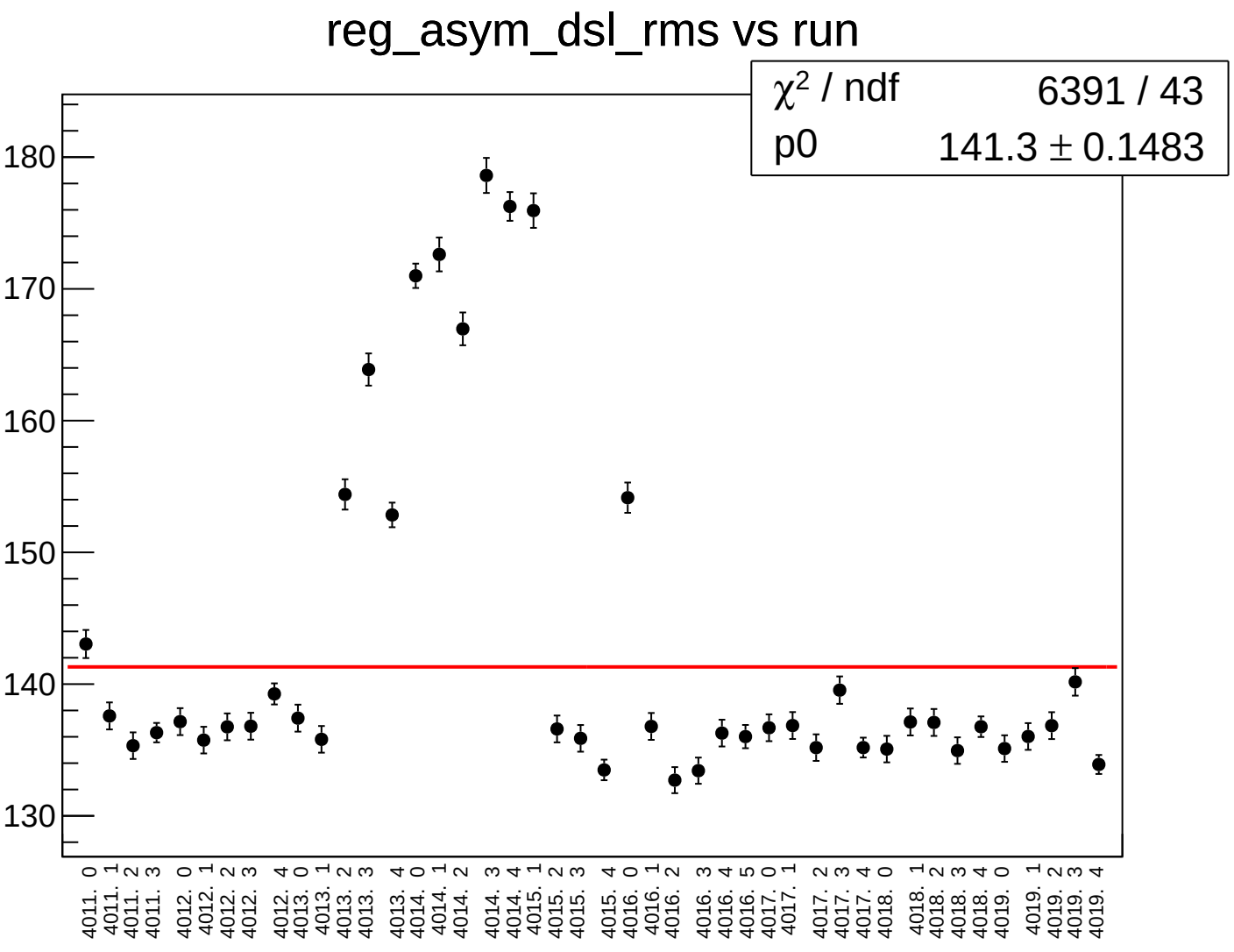

asym_usr_mean vs run
χ² / ndf 28.15 / 43
p0 607.1 ± 699.6
15000
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −24.1
Std Dev 23.16
2
1.5
1
0.5
0
−0.5
−1
−1.5

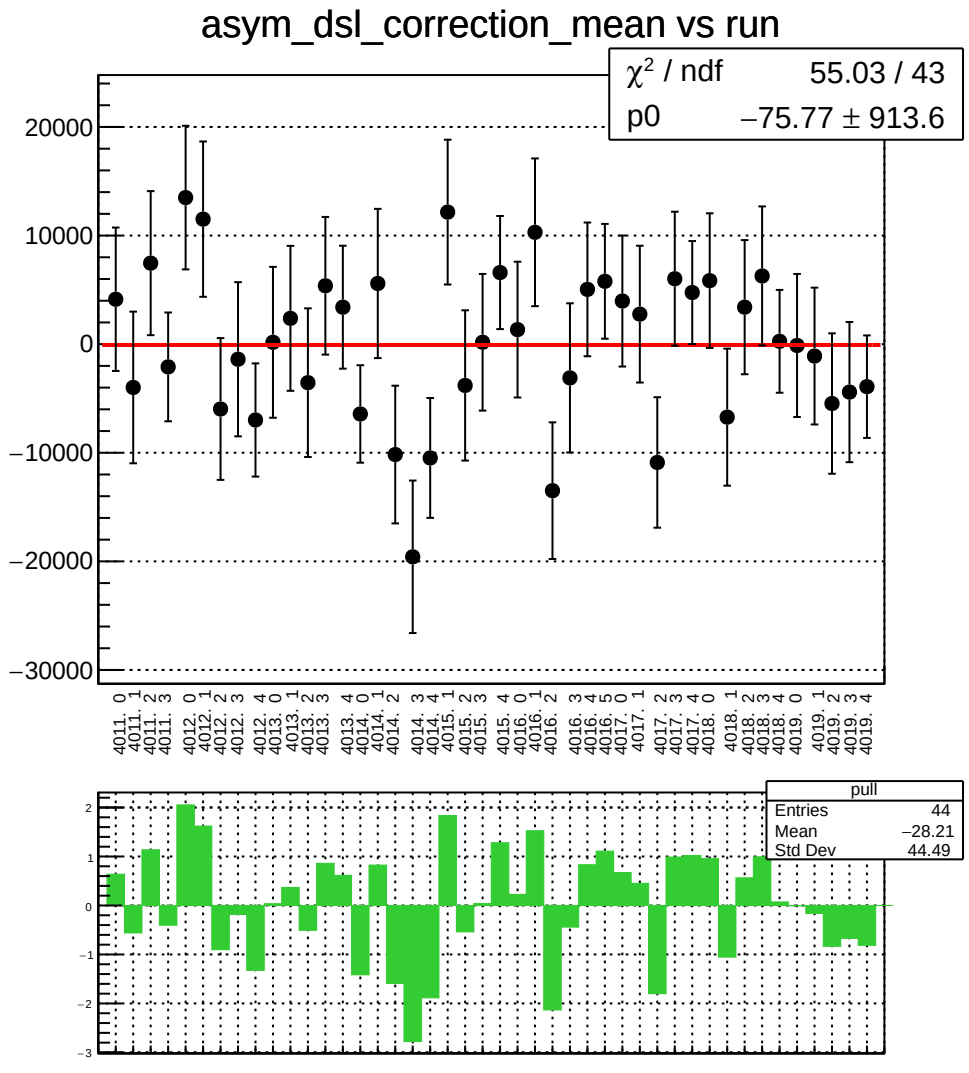

pull1D
Entries 44
Mean 0.01299
Std Dev 0.7997
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

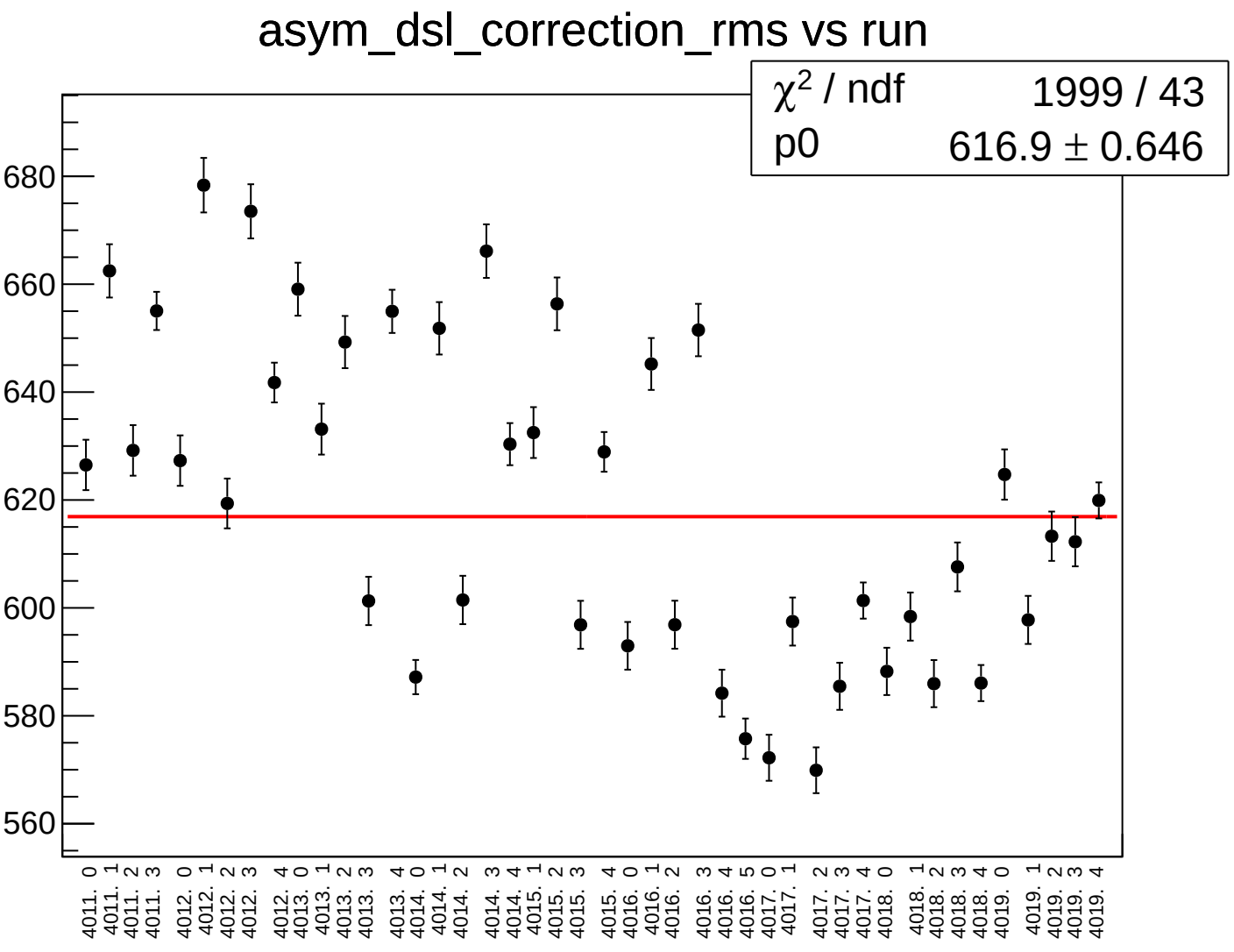

asym_usr_rms vs run
χ² / ndf 605.3 / 43
p0 472.8 ± 0.4947
500
490
480
470
460
450
440
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

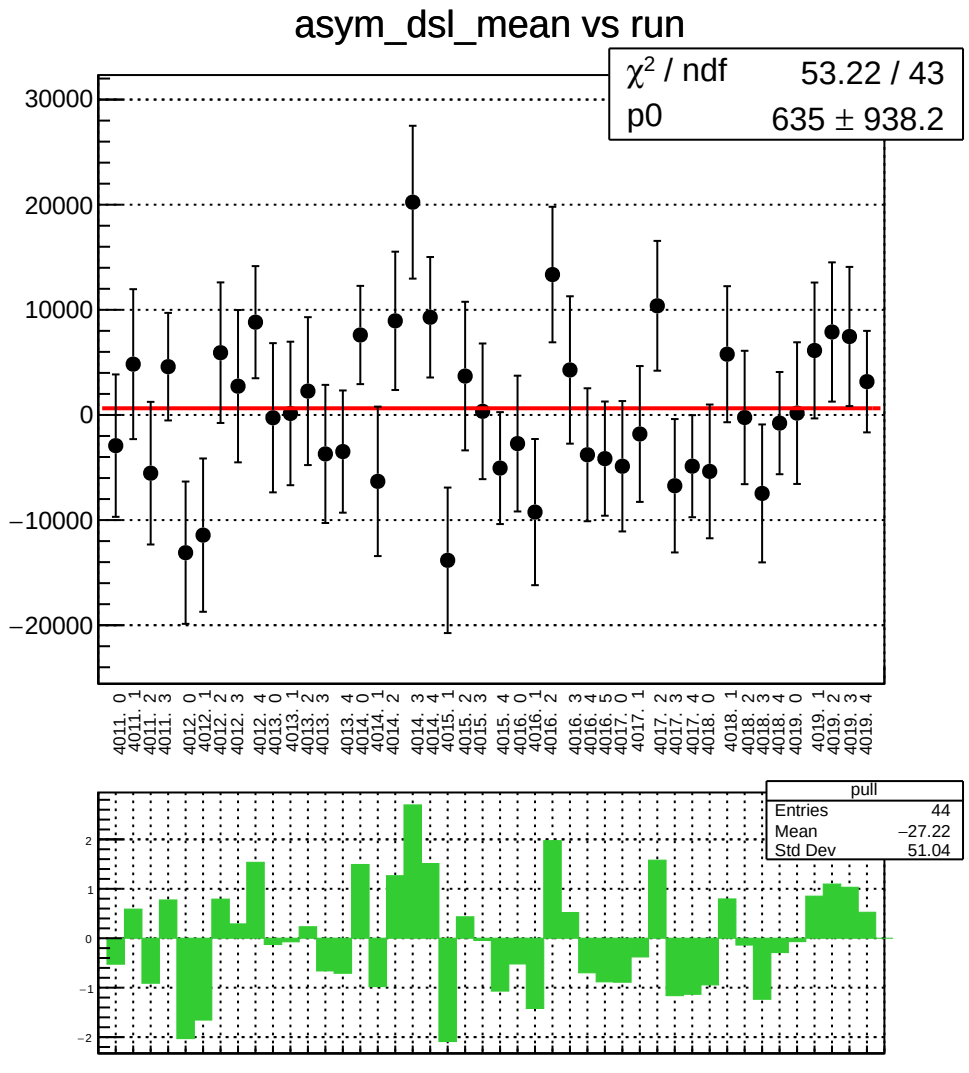

reg_asym_dsl_mean vs run
χ² / ndf 44.4 / 43
p0 641.8 ± 209.8
6000
4000
2000
0
−2000
−4000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 44.57
Std Dev 48.11
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

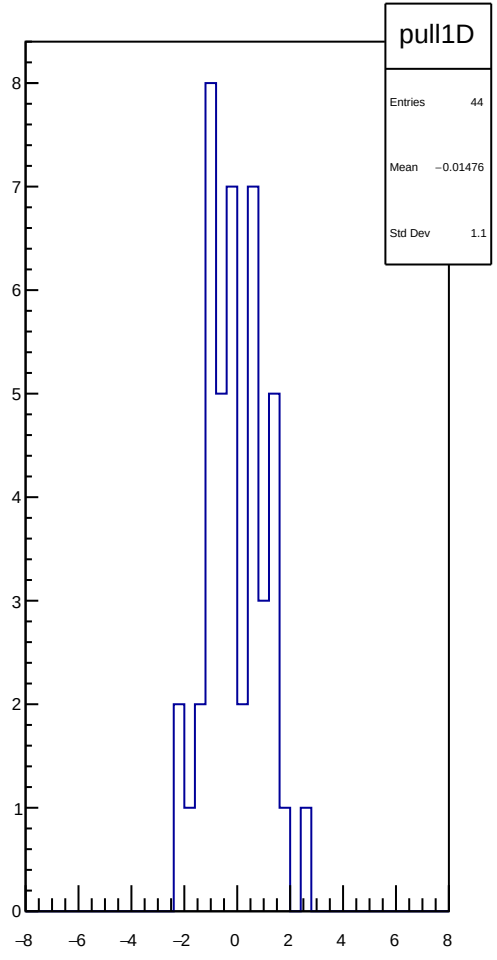

pull1D
Entries 44
Mean −0.02351
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

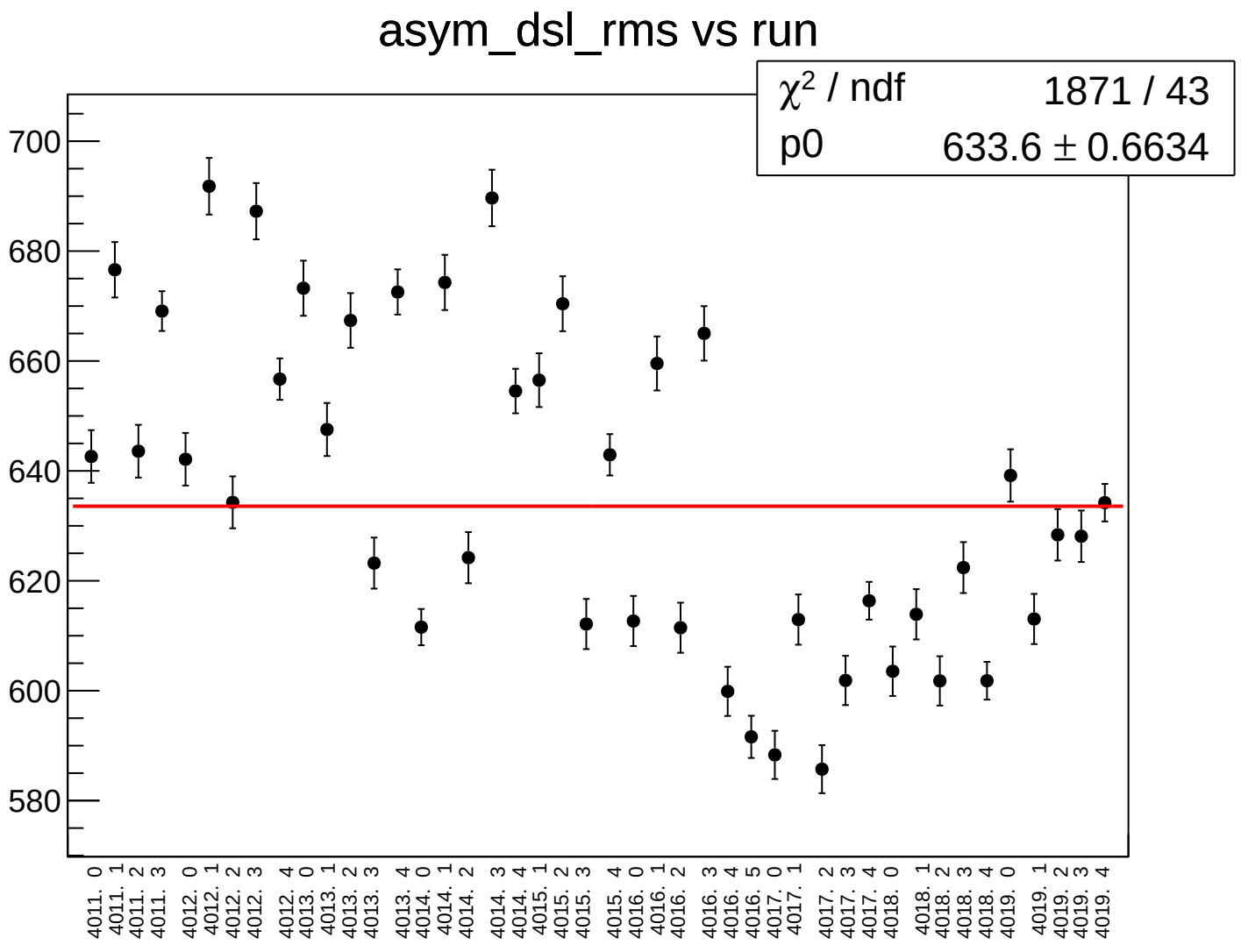

reg_asym_dsl_rms vs run
χ² / ndf 6391 / 43
p0 141.3 ± 0.1483
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

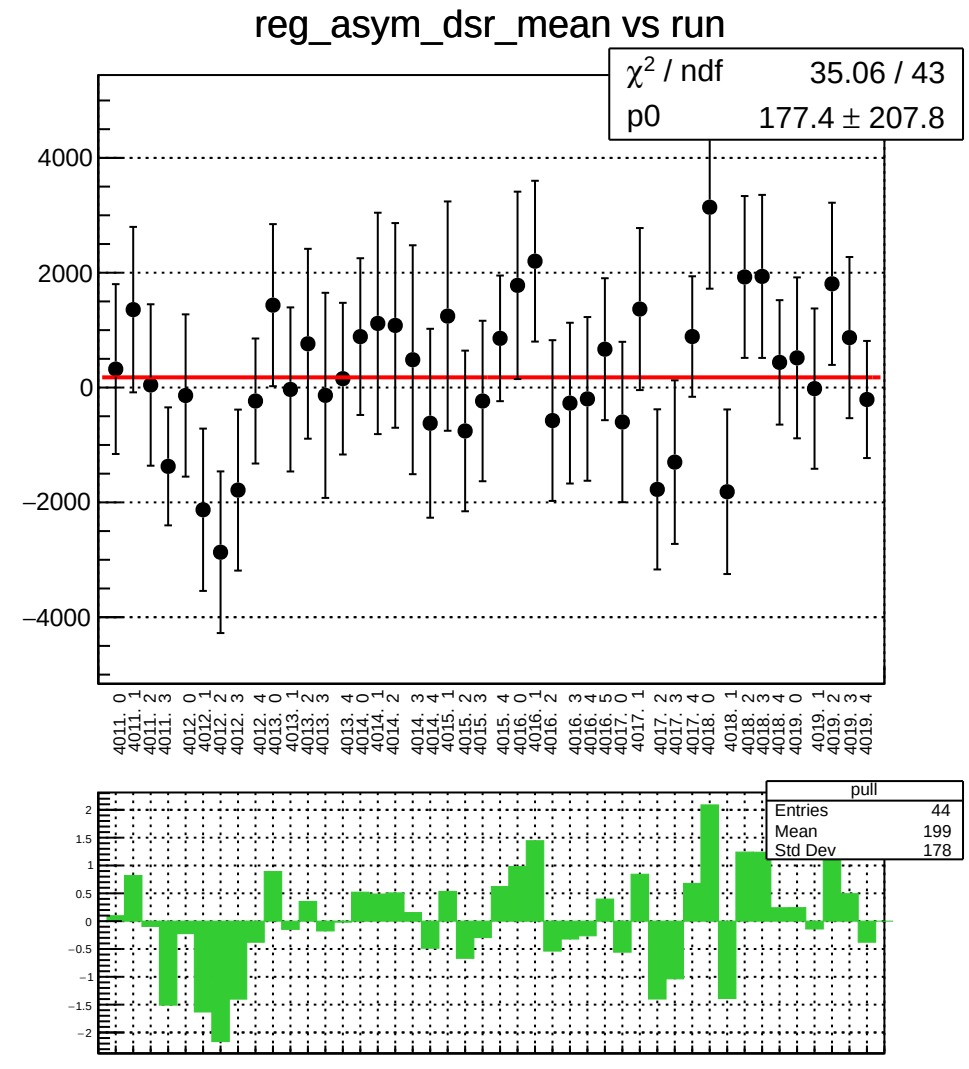

asym_dsl_correction_mean vs run
χ^2 / ndf 55.03 / 43
p0 −75.77 ± 913.6
20000
10000
0
−10000
−20000
−30000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4016. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −28.21
Std Dev 44.49
2
1
0
−1
−2
−3
pull1D
Entries 44
Mean 0.01614
Std Dev 1.118
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

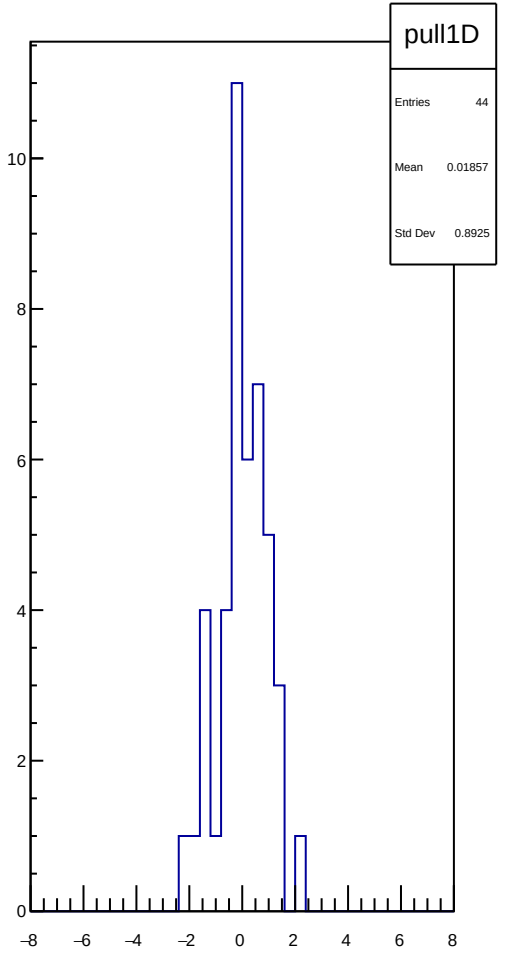

asym_dsl_correction_rms vs run
χ² / ndf 1999 / 43
p0 616.9 ± 0.646
680
660
640
620
600
580
560
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

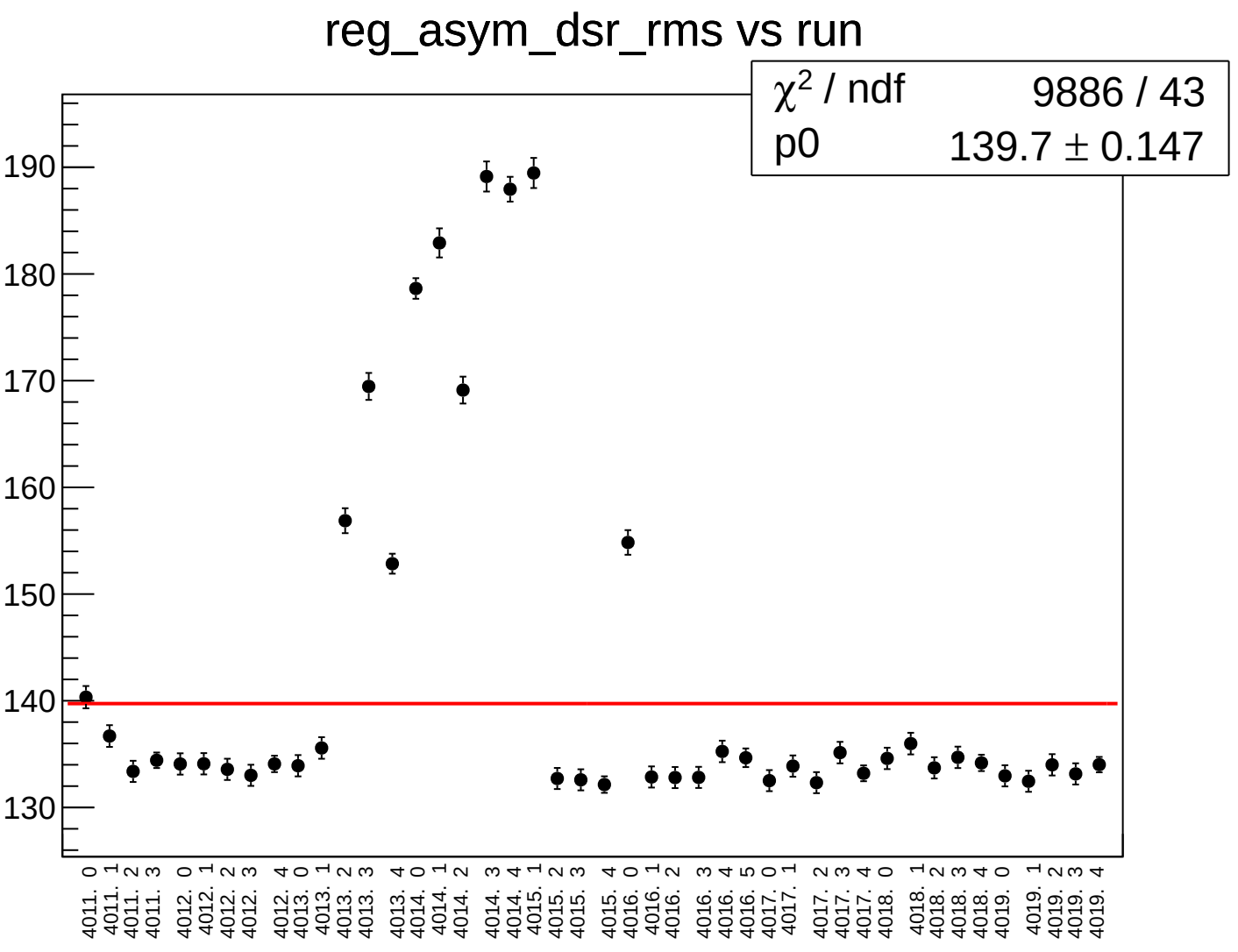

asym_dsl_mean vs run
χ² / ndf 53.22 / 43
p0 635 ± 938.2
30000
20000
10000
0
−10000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −27.22
Std Dev 51.04
2
1
0
−1
−2

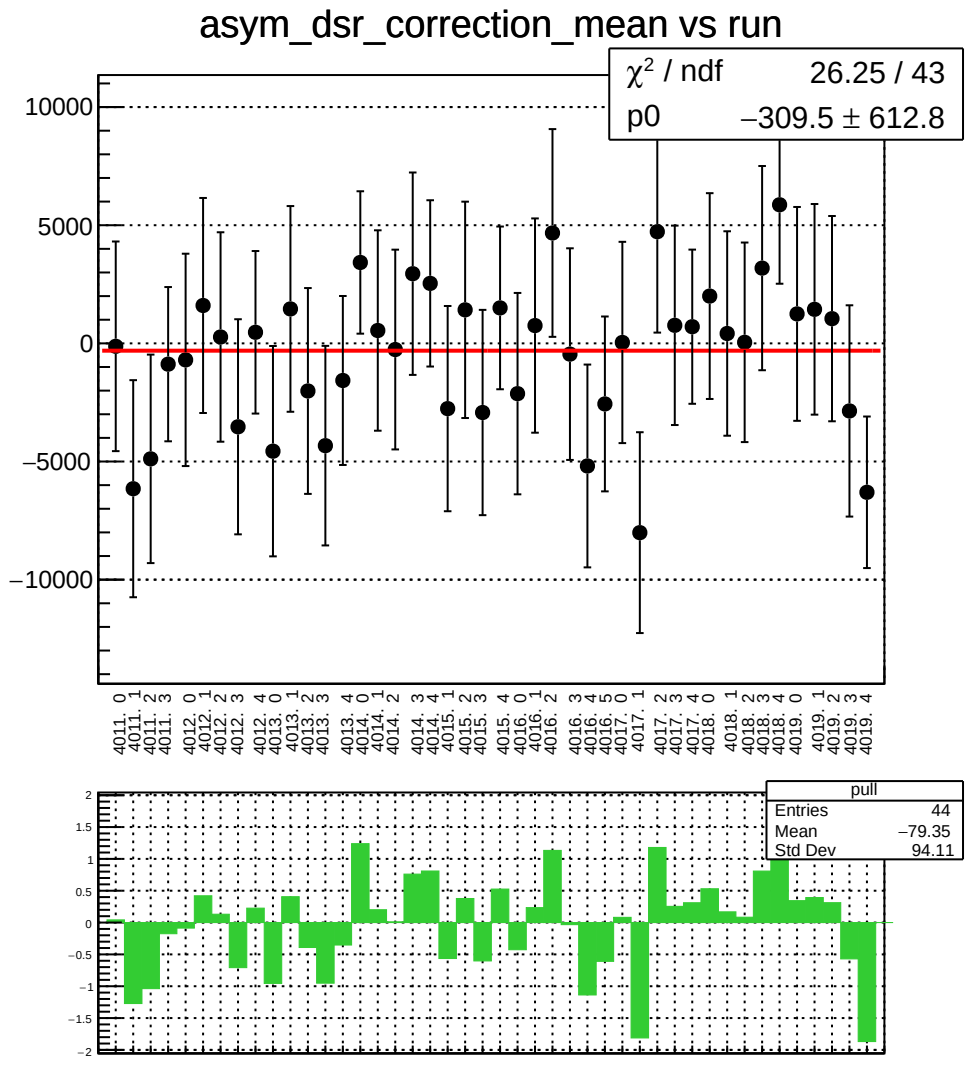

pull1D
Entries 44
Mean −0.01476
Std Dev 1.1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

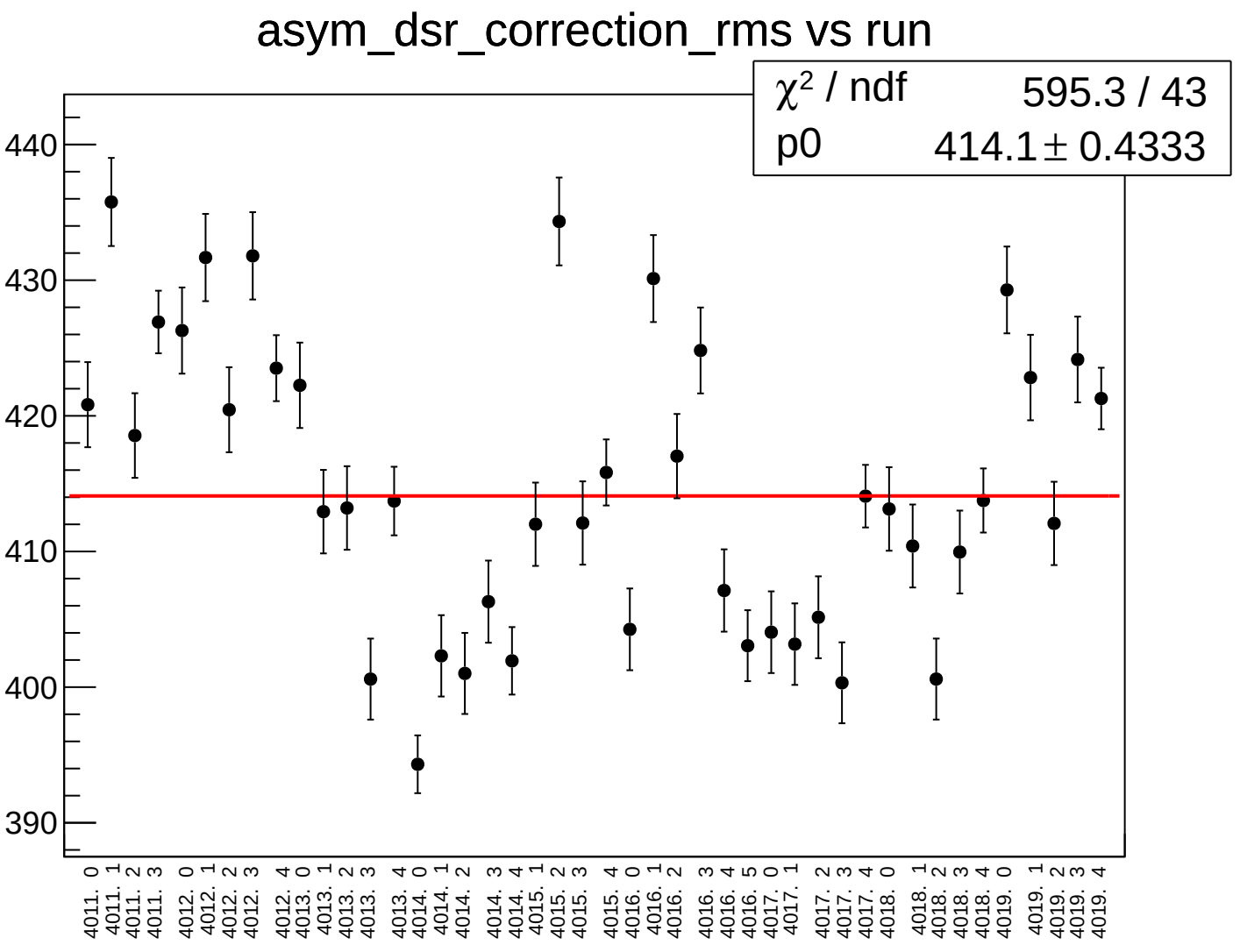

asym_dsl_rms vs run
χ² / ndf 1871 / 43
p0 633.6 ± 0.6634
700
680
660
640
620
600
580
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

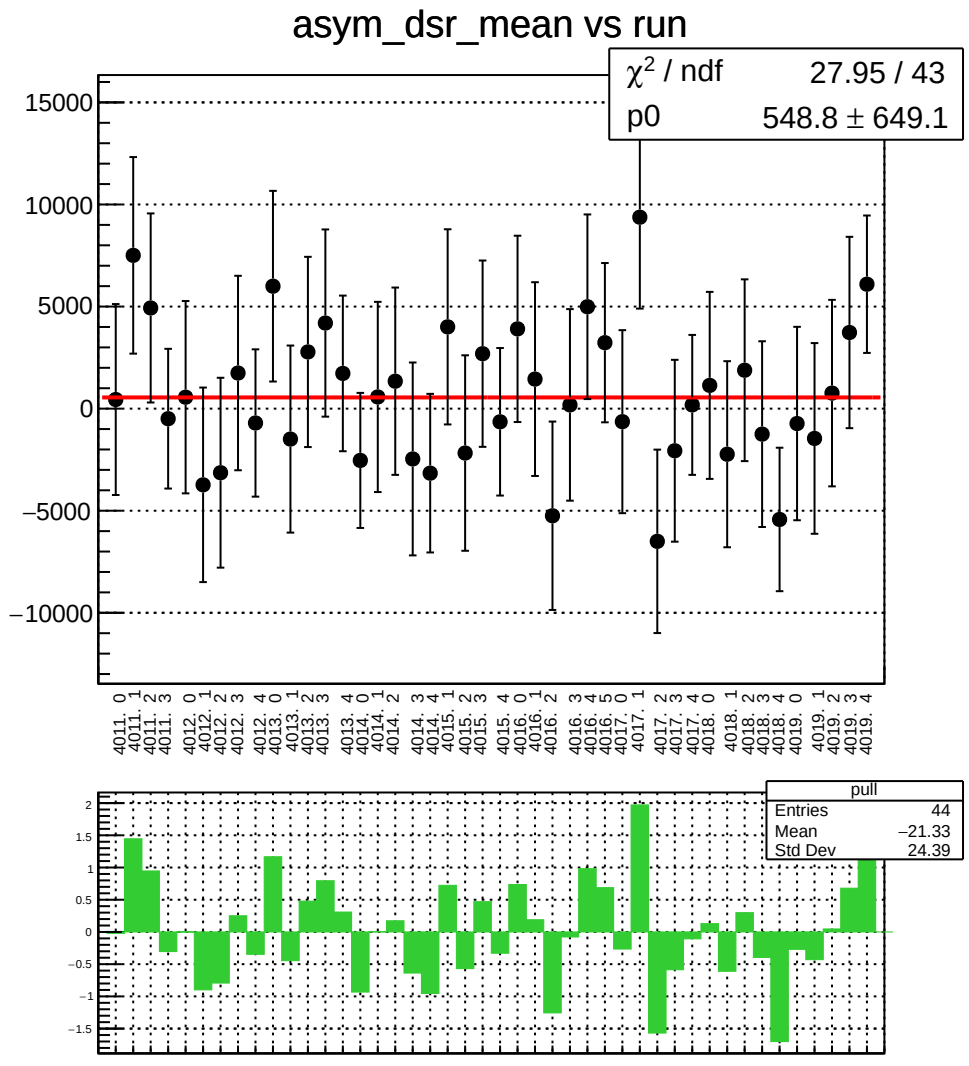

reg_asym_dsr_mean vs run
χ² / ndf 35.06 / 43
p0 177.4 ± 207.8
4000
2000
0
−2000
−4000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 199
Std Dev 178
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

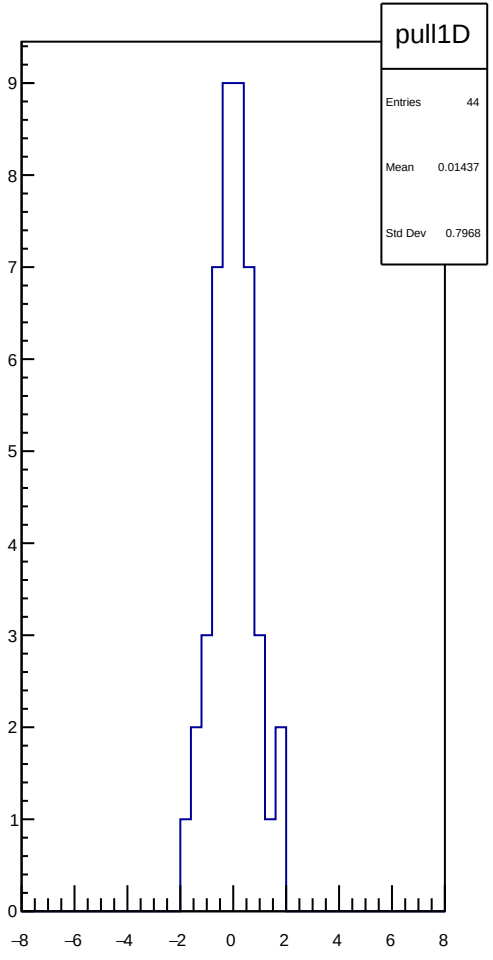

pull1D
Entries 44
Mean 0.01857
Std Dev 0.8925
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

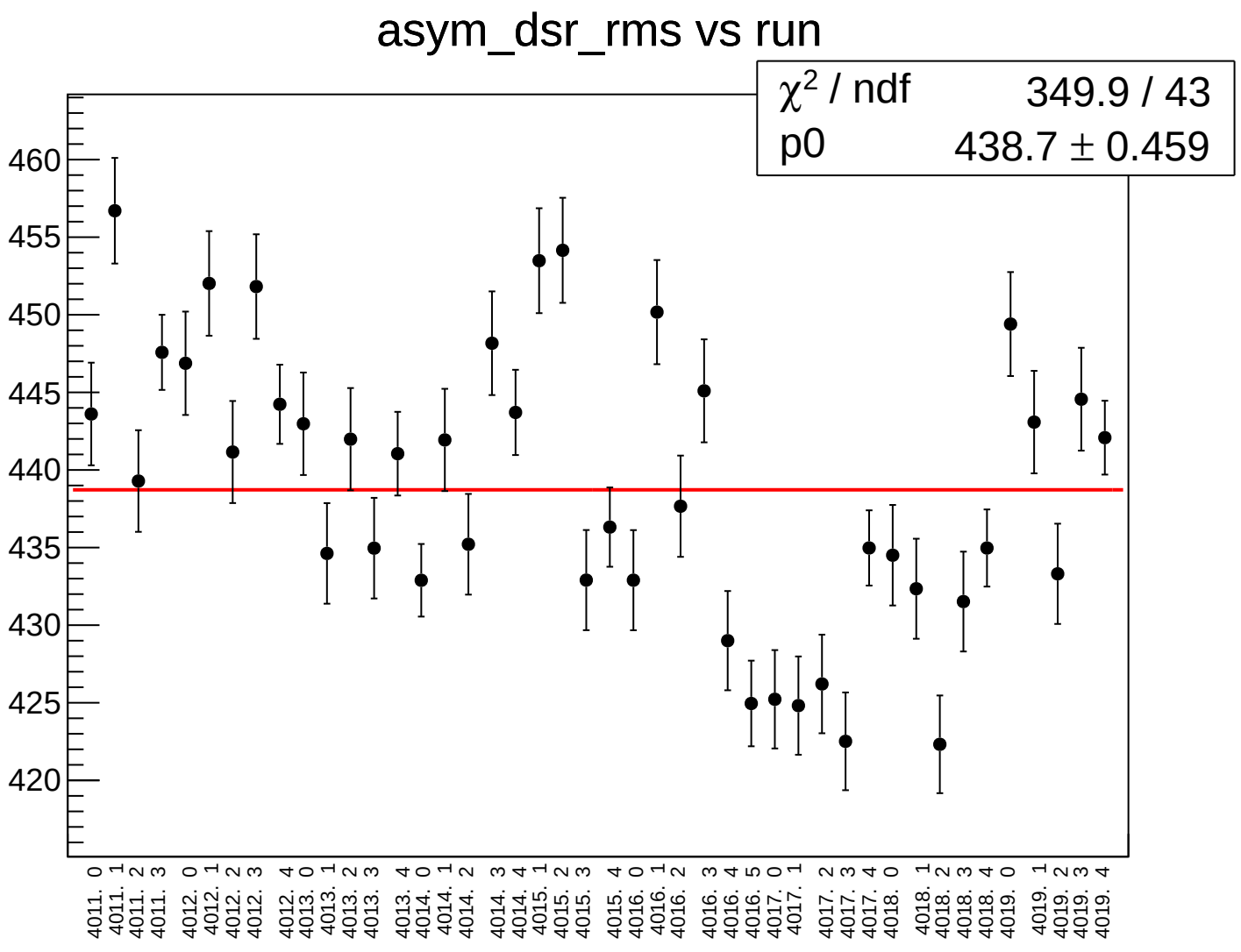

reg_asym_dsr_rms vs run
χ² / ndf 9886 / 43
p0 139.7 ± 0.147
190
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

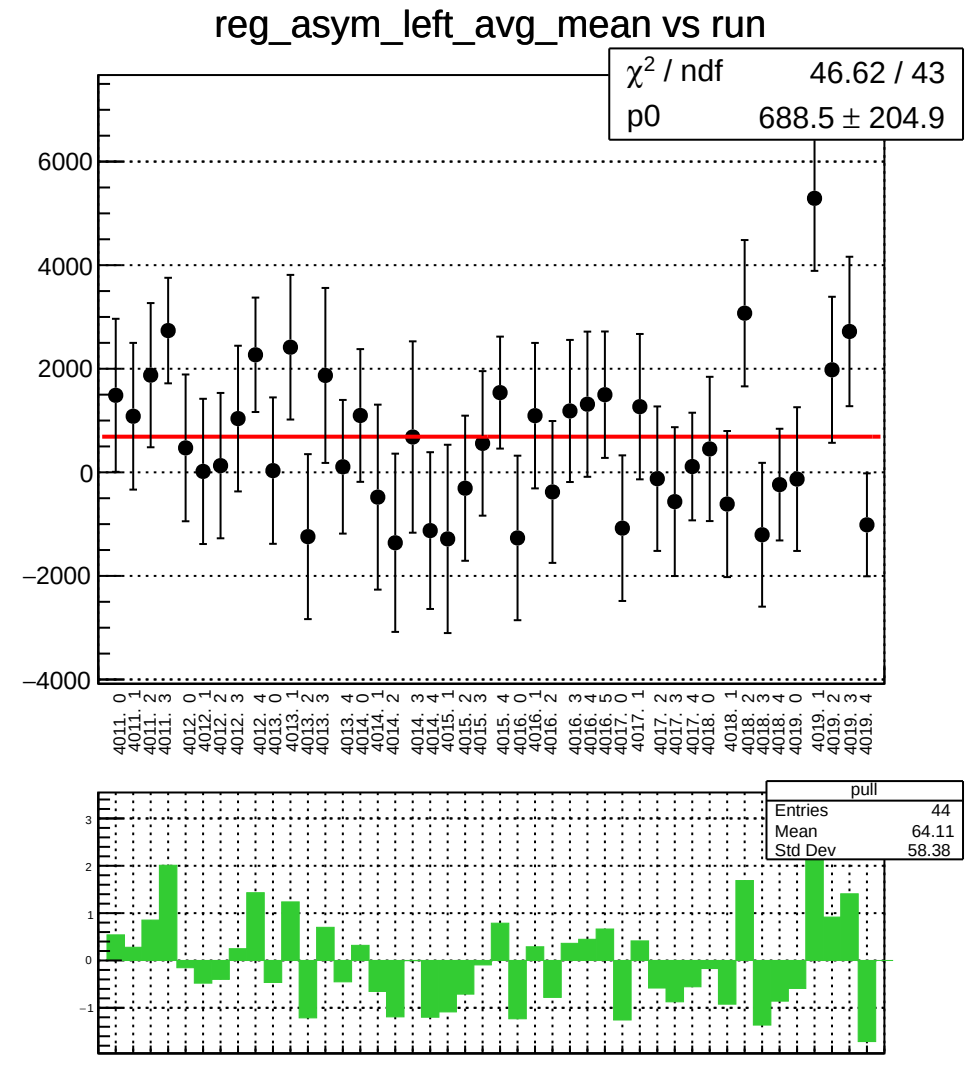

asym_dsr_correction_mean vs run
χ² / ndf 26.25 / 43
p0 −309.5 ± 612.8
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −79.35
Std Dev 94.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean −0.01641
Std Dev 0.7722
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

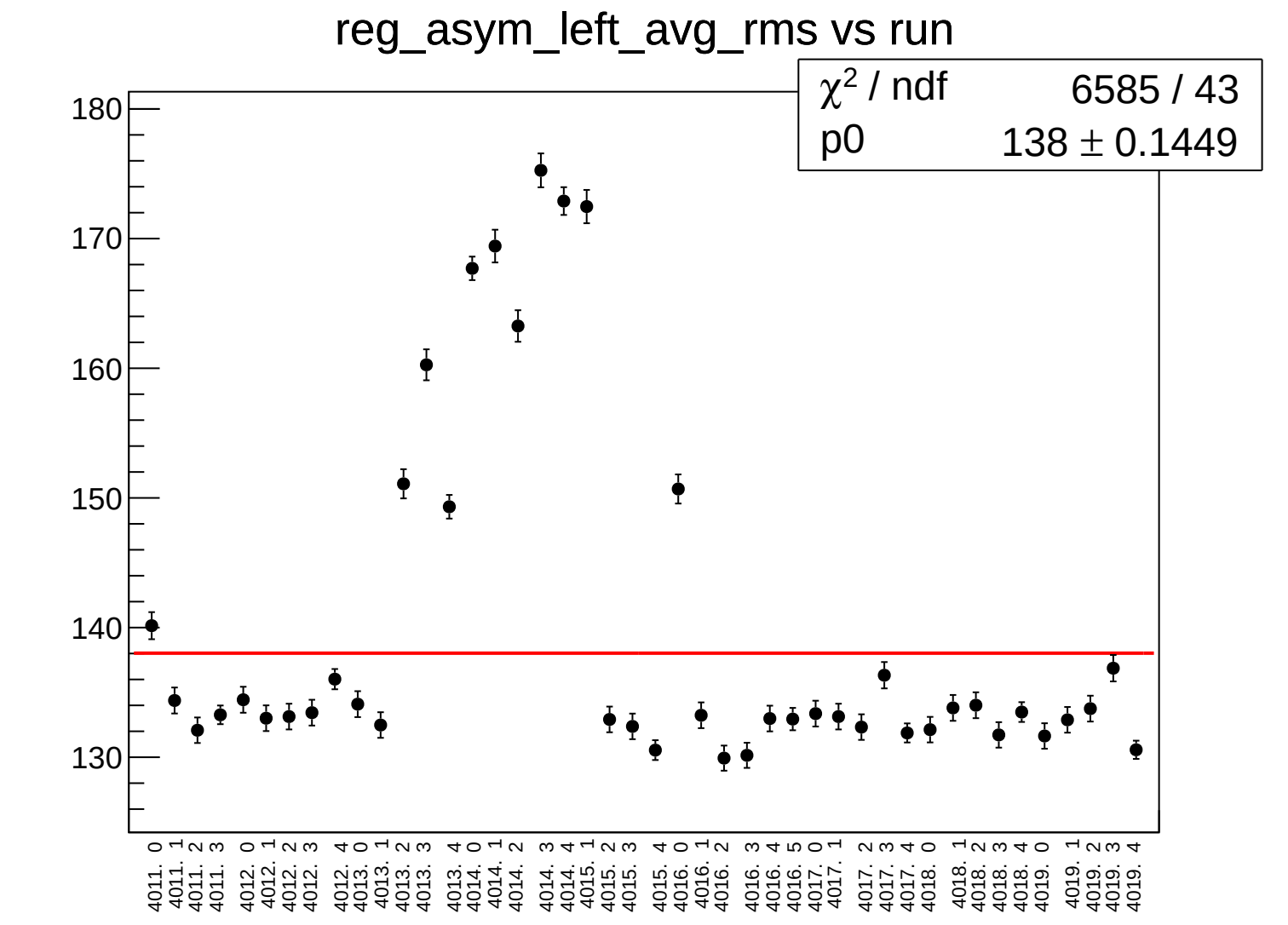

asym_dsr_correction_rms vs run
χ² / ndf 595.3 / 43
p0 414.1 ± 0.4333
440
430
420
410
400
390
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

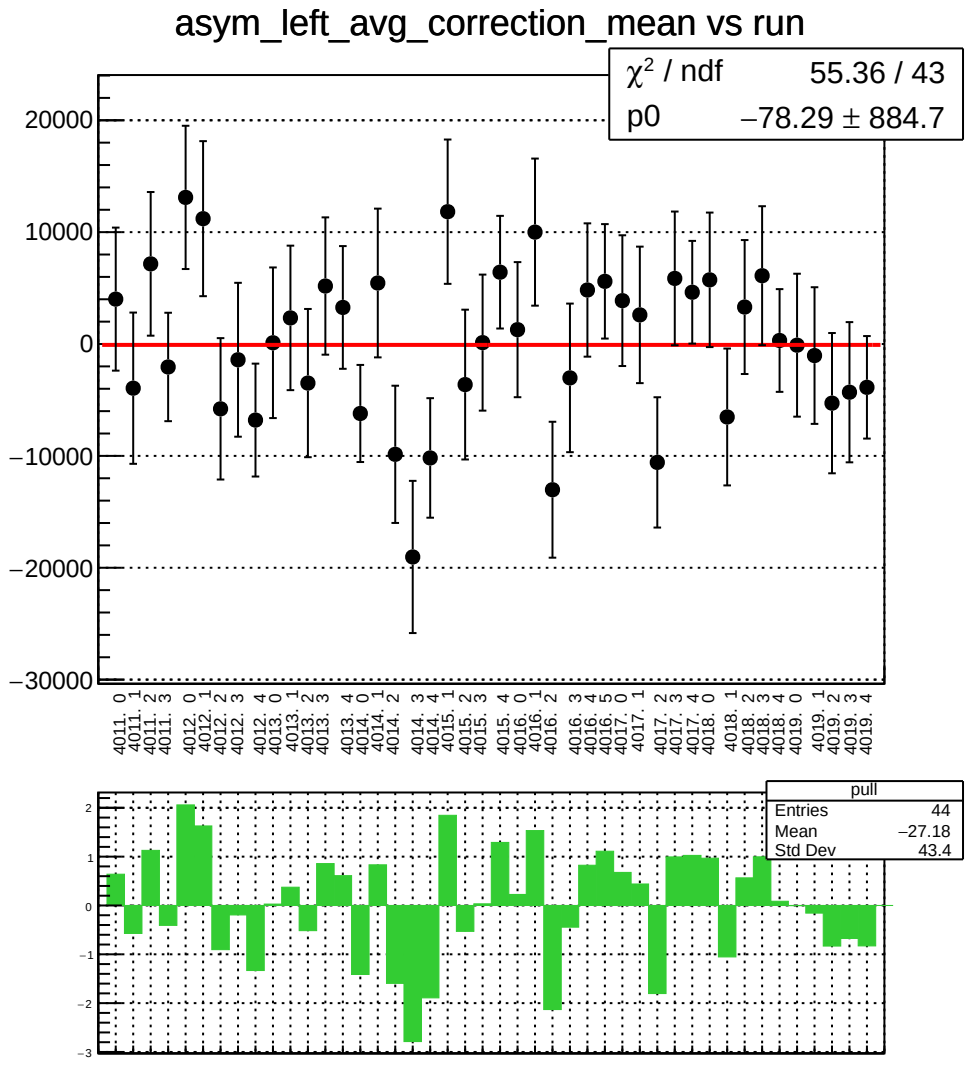

asym_dsr_mean vs run
χ² / ndf 27.95 / 43
p0 548.8 ± 649.1
15000
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −21.33
Std Dev 24.39
2
1.5
1
0.5
0
−0.5
−1
−1.5

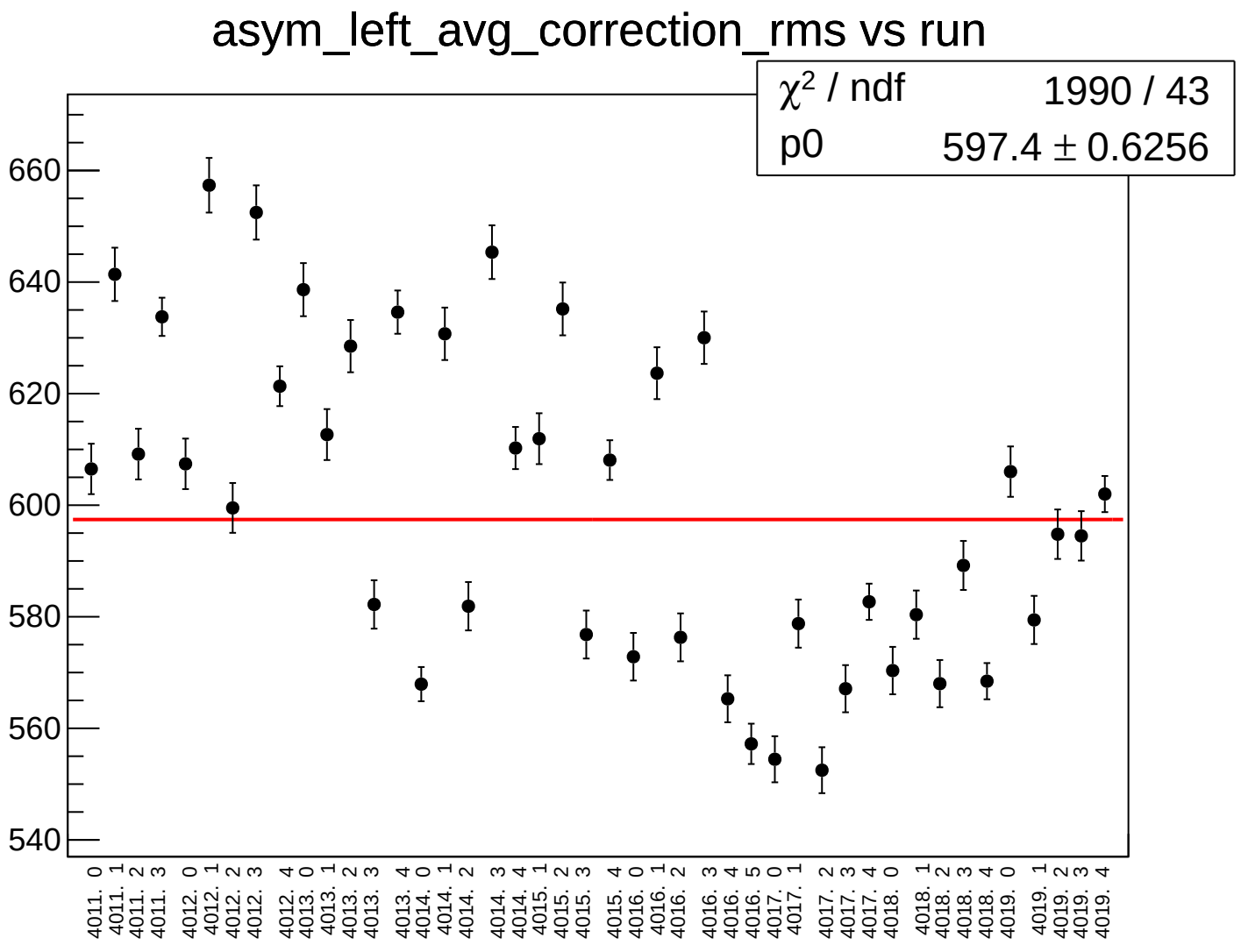

pull1D
Entries 44
Mean 0.01437
Std Dev 0.7968
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

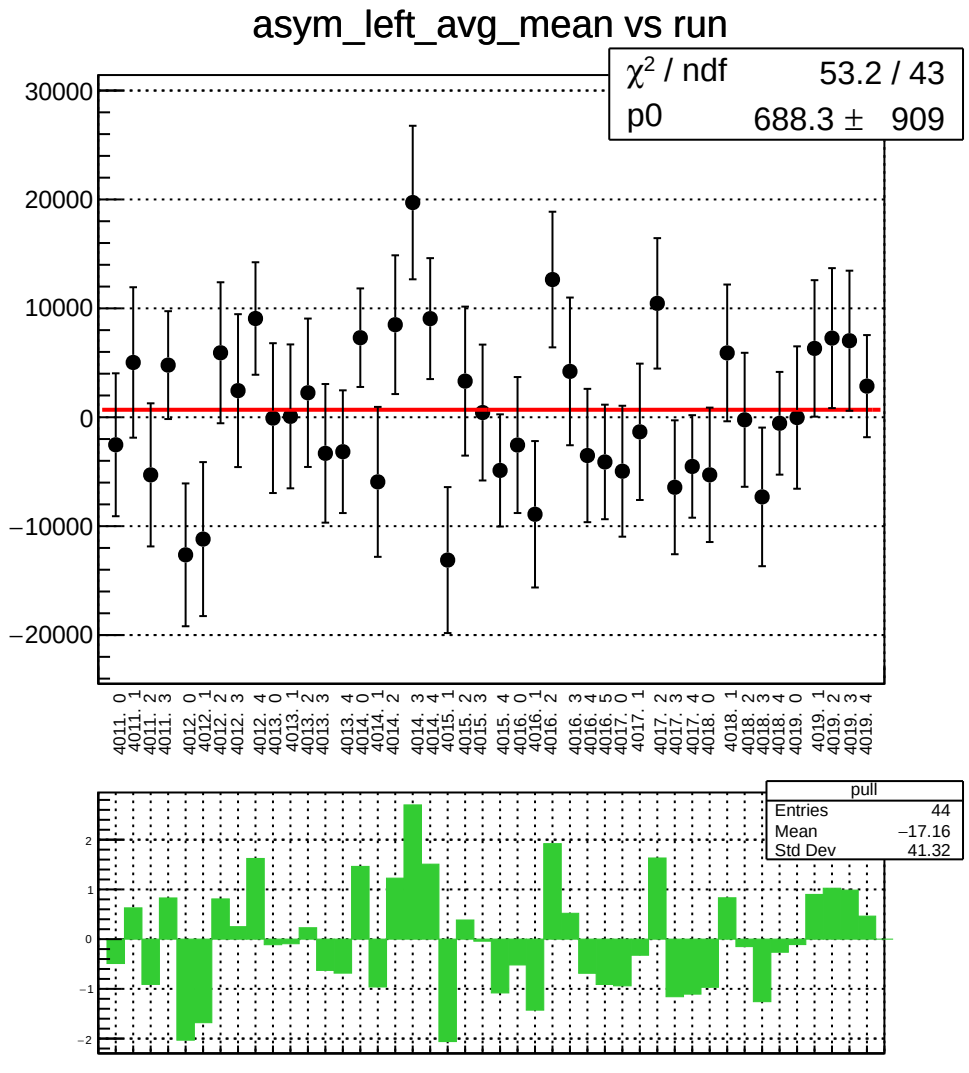

asym_dsr_rms vs run
χ^2 / ndf 349.9 / 43
p0 438.7 ± 0.459
460
455
450
445
440
435
430
425
420
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

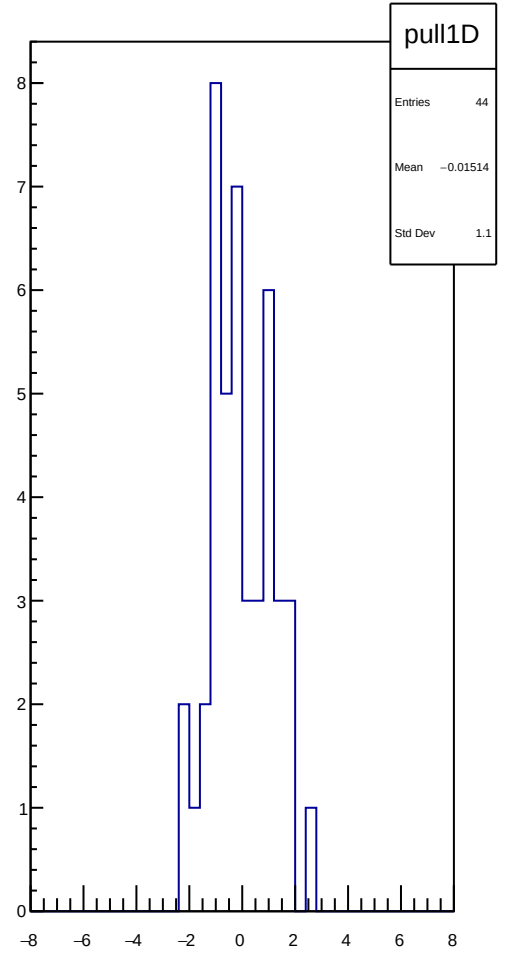

reg_asym_left_avg_mean vs run
χ² / ndf 46.62 / 43
p0 688.5 ± 204.9
6000
4000
2000
0
−2000
−4000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 64.11
Std Dev 58.38
3
2
1
0
−1
pull1D
Entries 44
Mean −0.0251
Std Dev 1.029
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

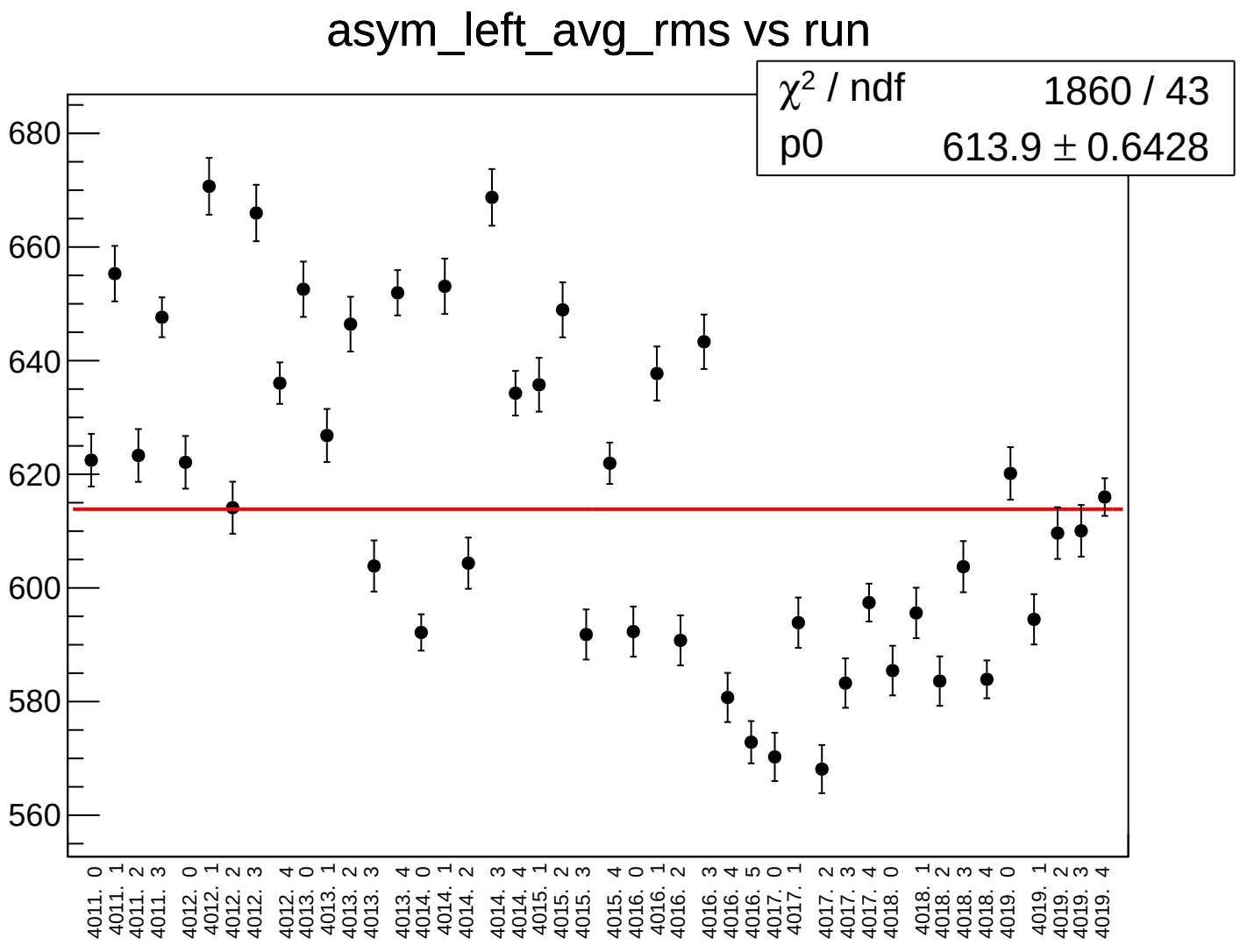

reg_asym_left_avg_rms vs run
χ² / ndf 6585 / 43
p0 138 ± 0.1449
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

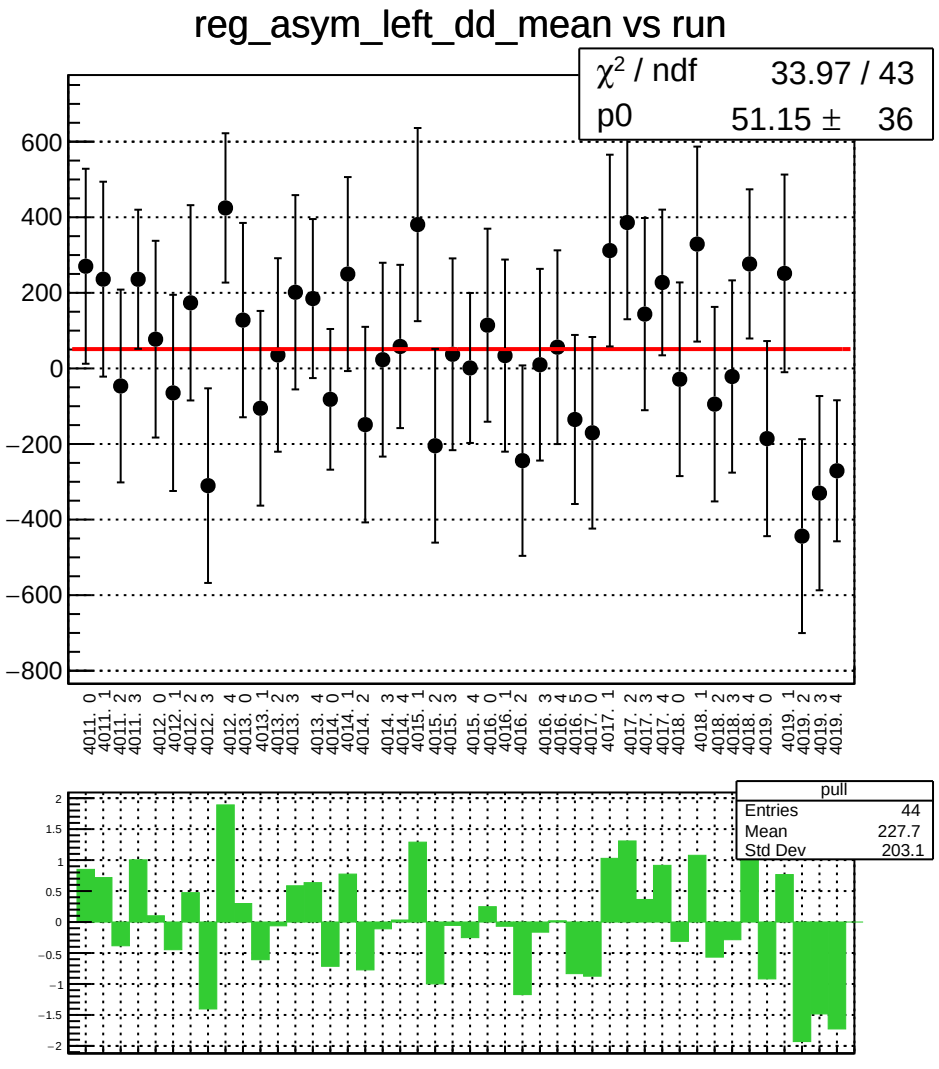

asym_left_avg_correction_mean vs run
χ² / ndf 55.36 / 43
p0 −78.29 ± 884.7
20000
10000
0
−10000
−20000
−30000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4016. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −27.18
Std Dev 43.4
2
1
0
−1
−2
−3
pull1D
Entries 44
Mean 0.01606
Std Dev 1.122
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

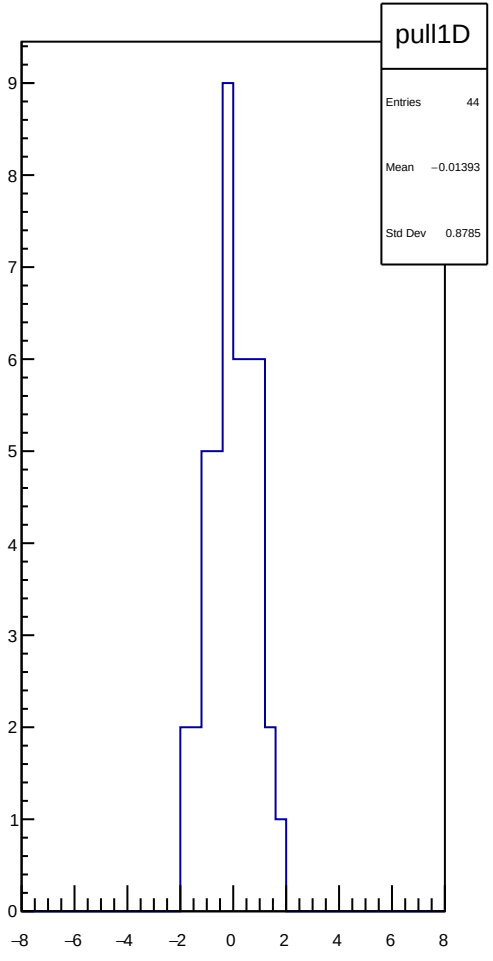

asym_left_avg_correction_rms vs run
χ² / ndf 1990 / 43
p0 597.4 ± 0.6256
660
640
620
600
580
560
540
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

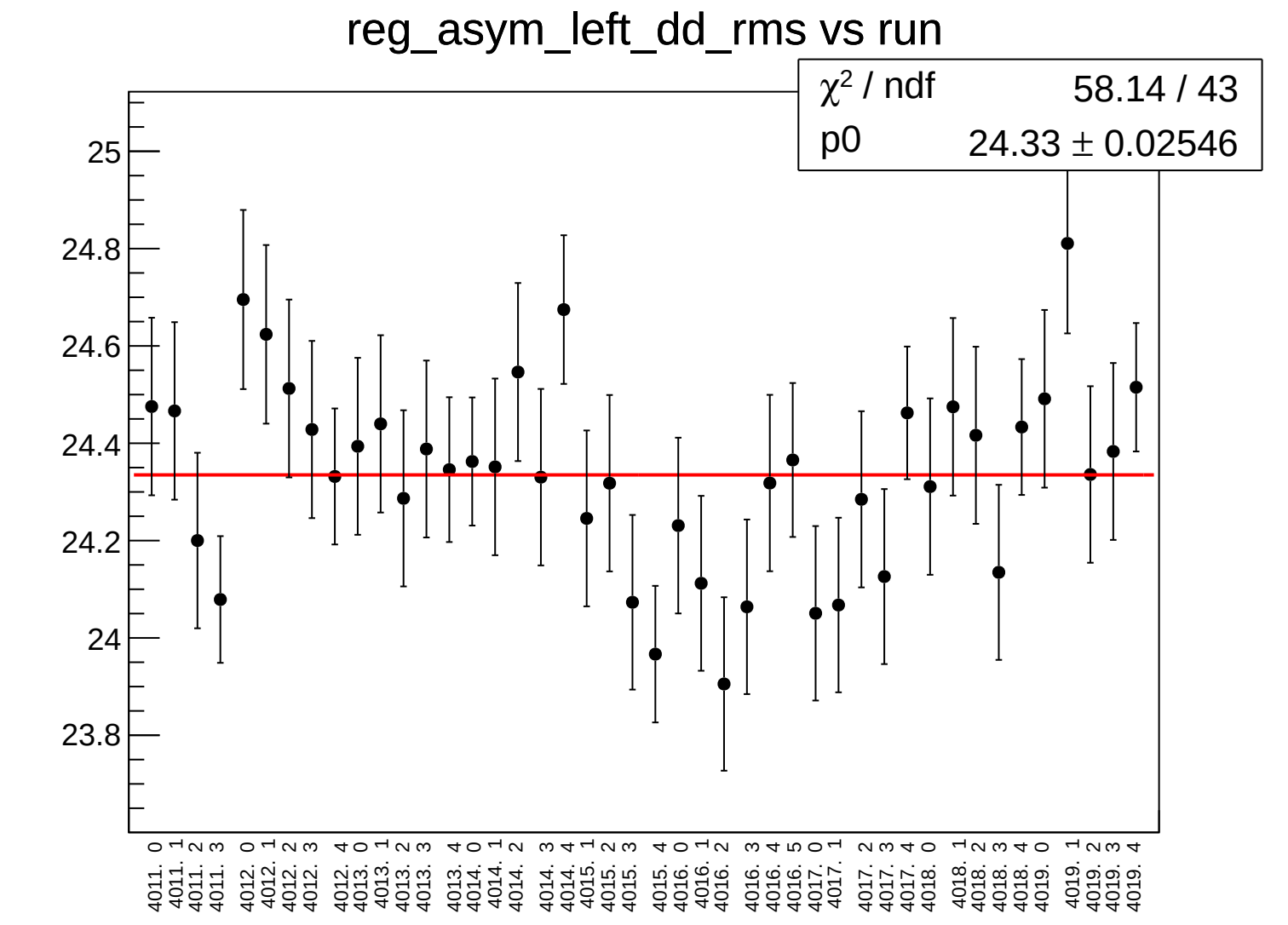

asym_left_avg_mean vs run
χ² / ndf 53.2 / 43
p0 688.3 ± 909
30000
20000
10000
0
−10000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −17.16
Std Dev 41.32
2
1
0
−1
−2

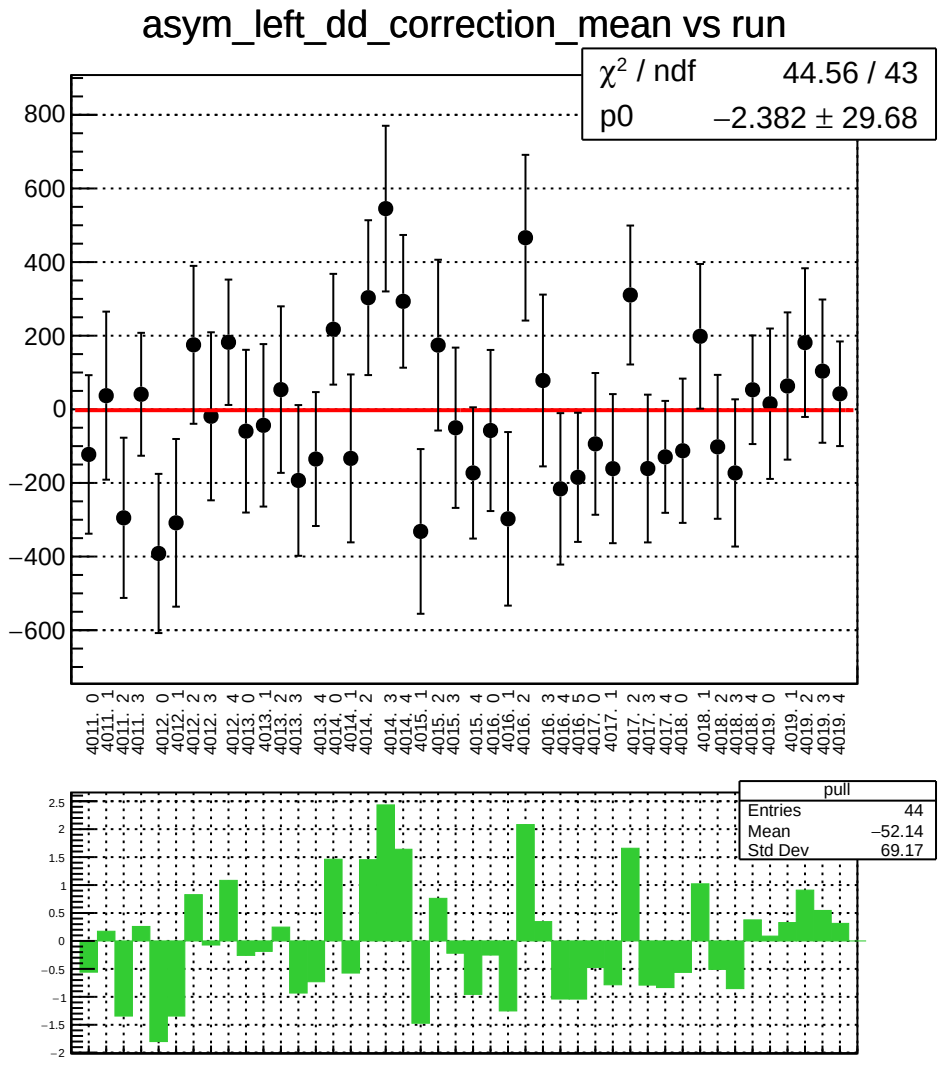

pull1D
Entries 44
Mean −0.01514
Std Dev 1.1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

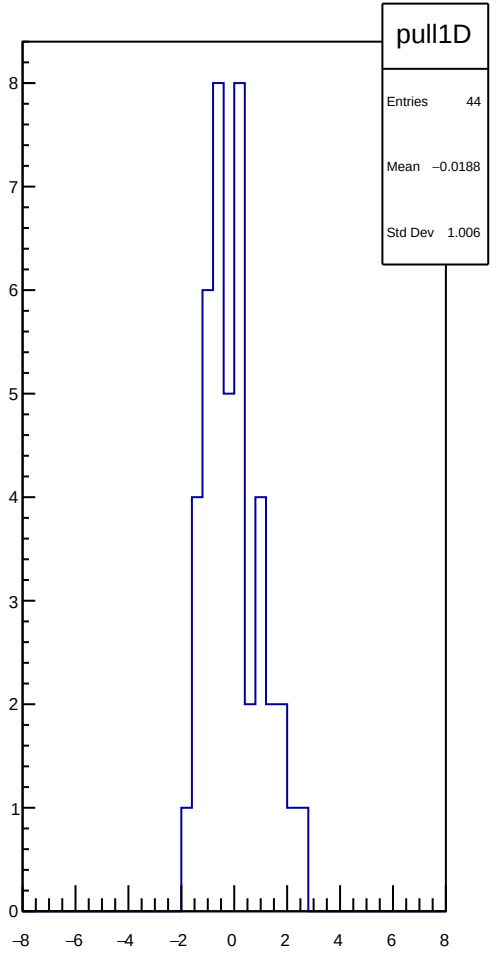

asym_left_avg_rms vs run
χ² / ndf 1860 / 43
p0 613.9 ± 0.6428
680
660
640
620
600
580
560
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

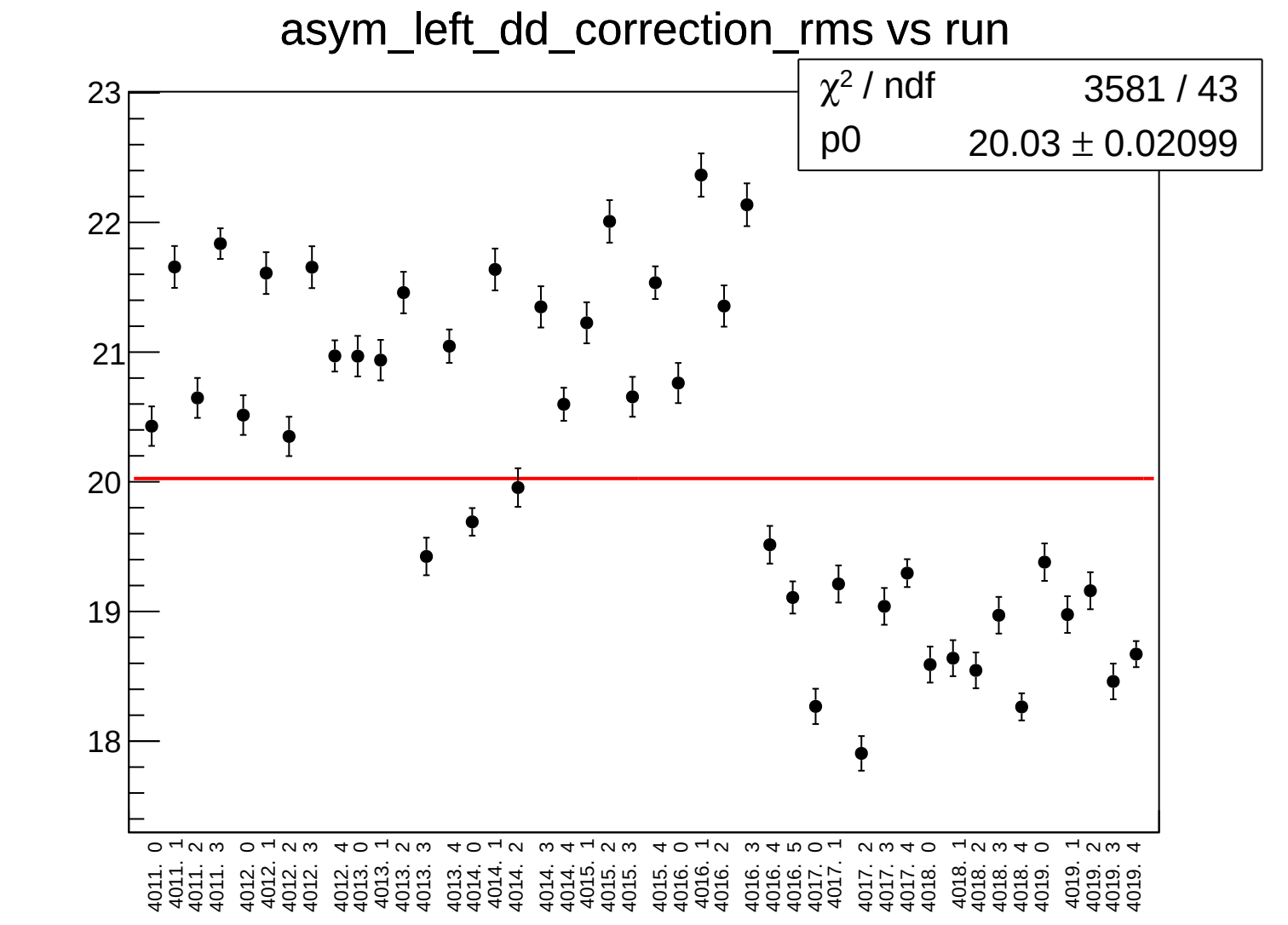

reg_asym_left_dd_mean vs run
χ^2 / ndf 33.97 / 43
p0 51.15 ± 36
pull
Entries 44
Mean 227.7
Std Dev 203.1

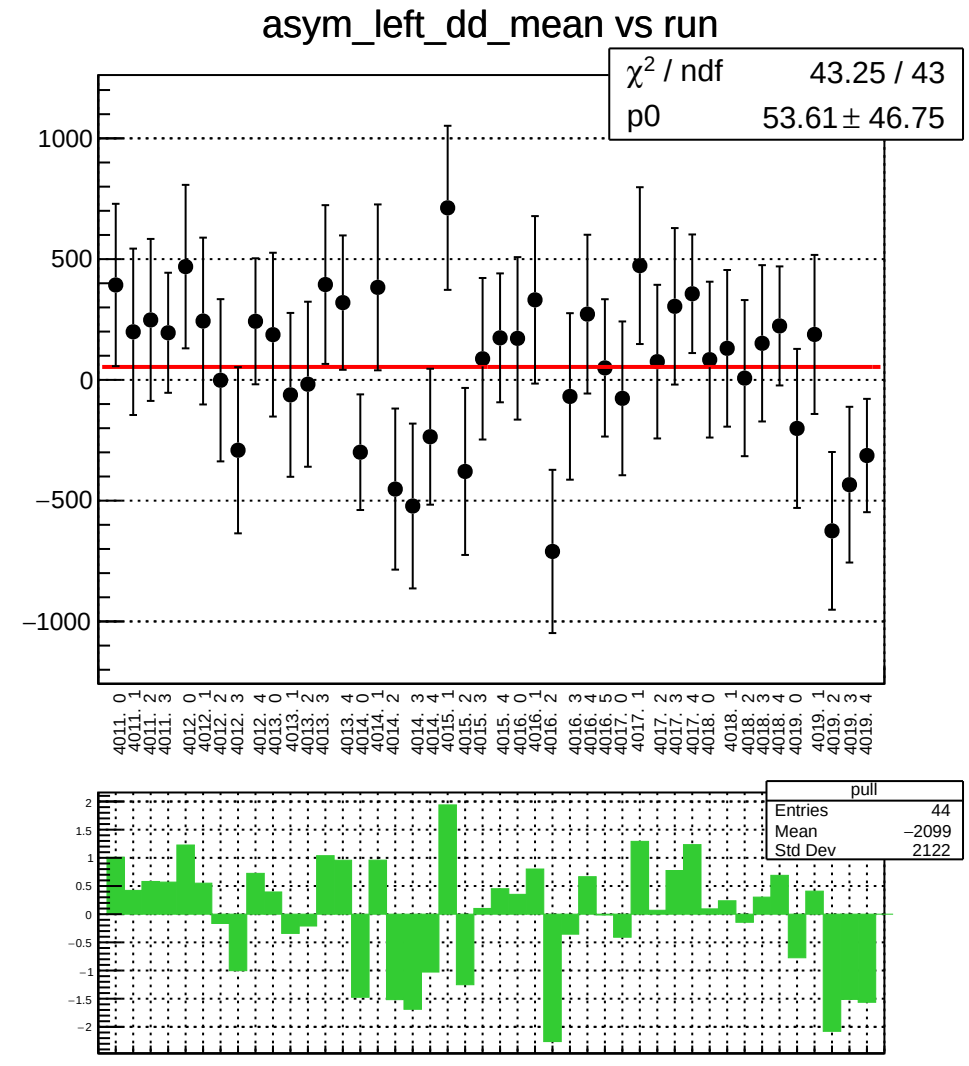

pull1D
Entries 44
Mean −0.01393
Std Dev 0.8785

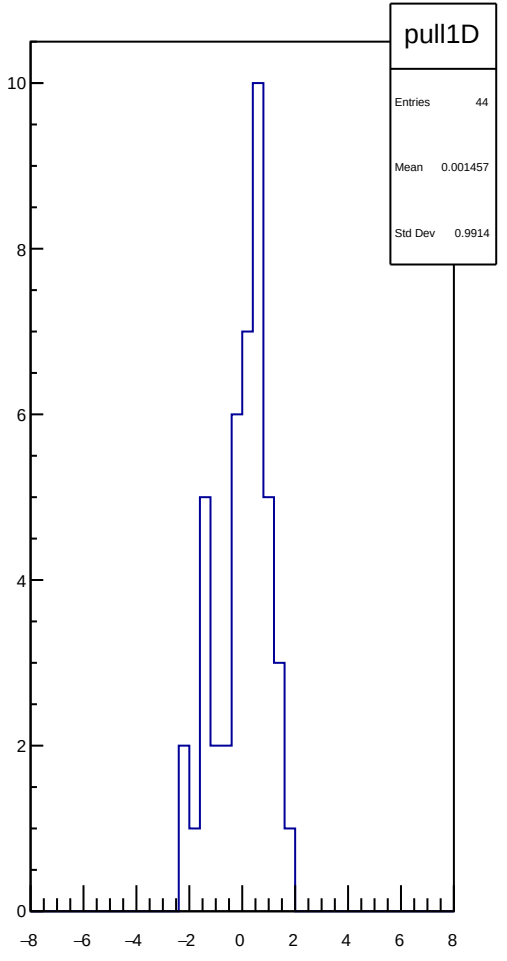

reg_asym_left_dd_rms vs run
χ² / ndf 58.14 / 43
p0 24.33 ± 0.02546
25
24.8
24.6
24.4
24.2
24
23.8
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

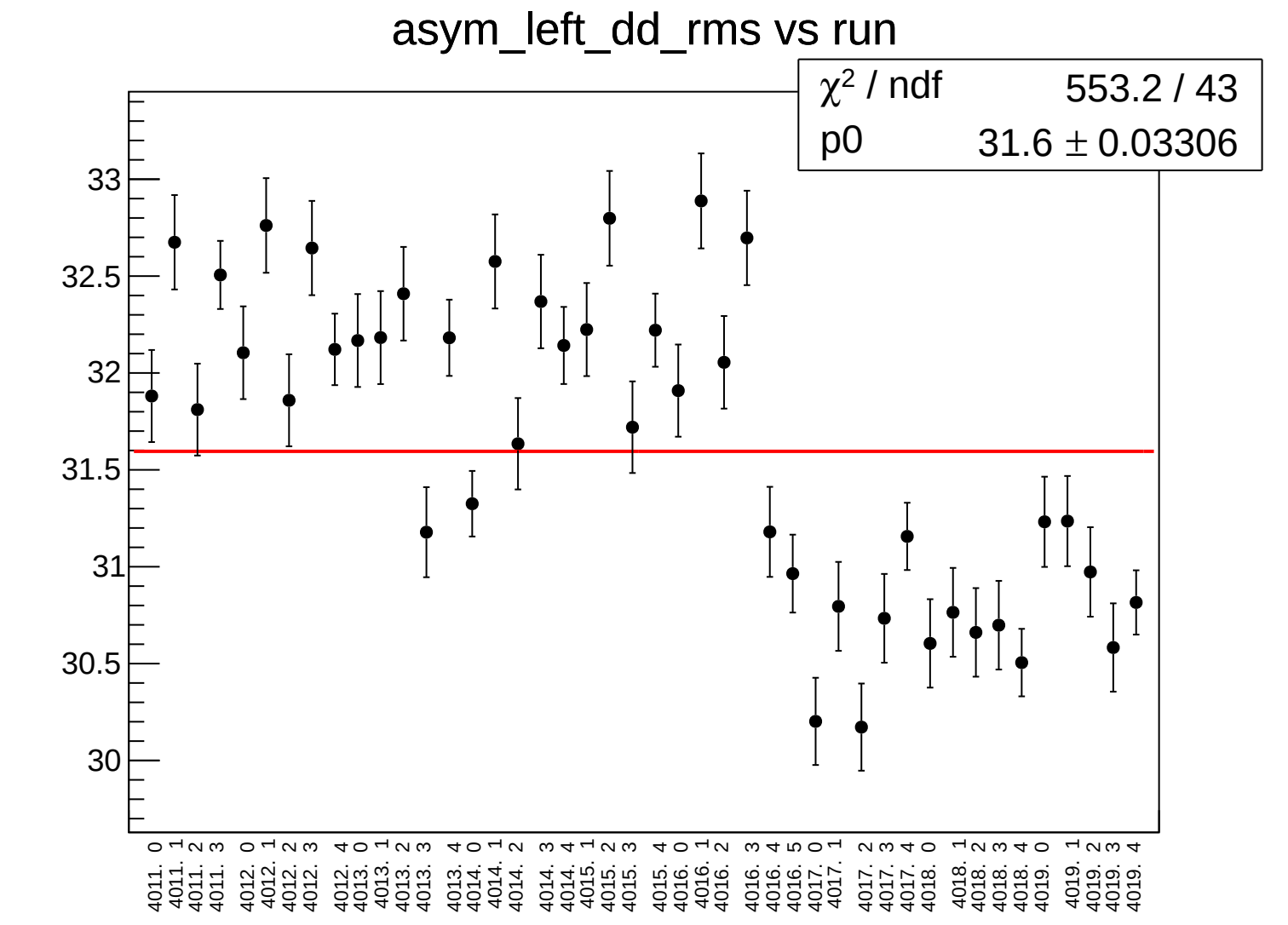

asym_left_dd_correction_mean vs run
χ² / ndf 44.56 / 43
p0 −2.382 ± 29.68
pull
Entries 44
Mean −52.14
Std Dev 69.17

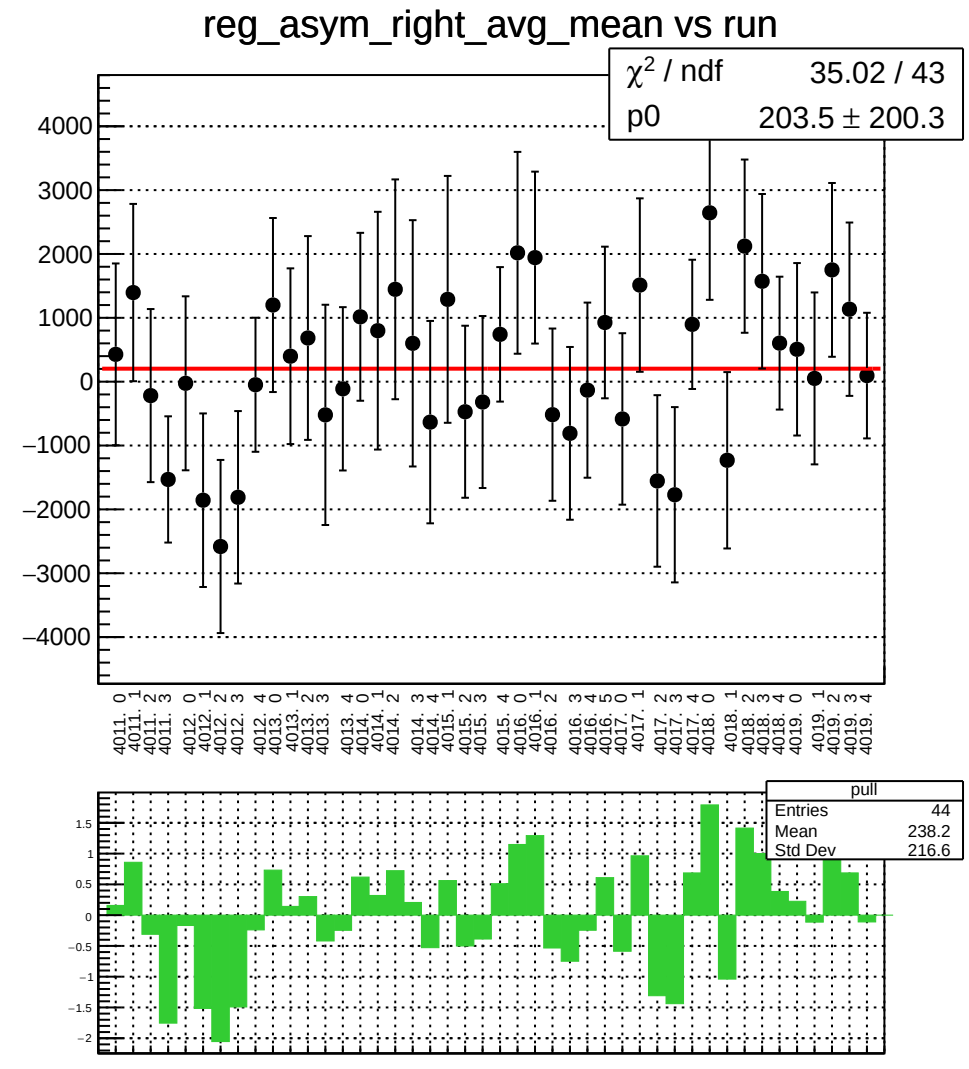

pull1D
Entries 44
Mean −0.0188
Std Dev 1.006

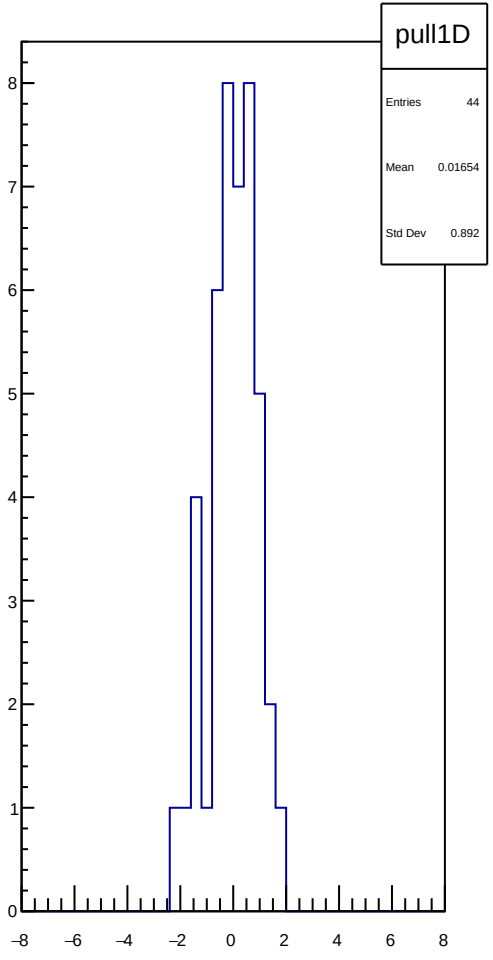

asym_left_dd_correction_rms vs run
χ² / ndf 3581 / 43
p0 20.03 ± 0.02099
23
22
21
20
19
18
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

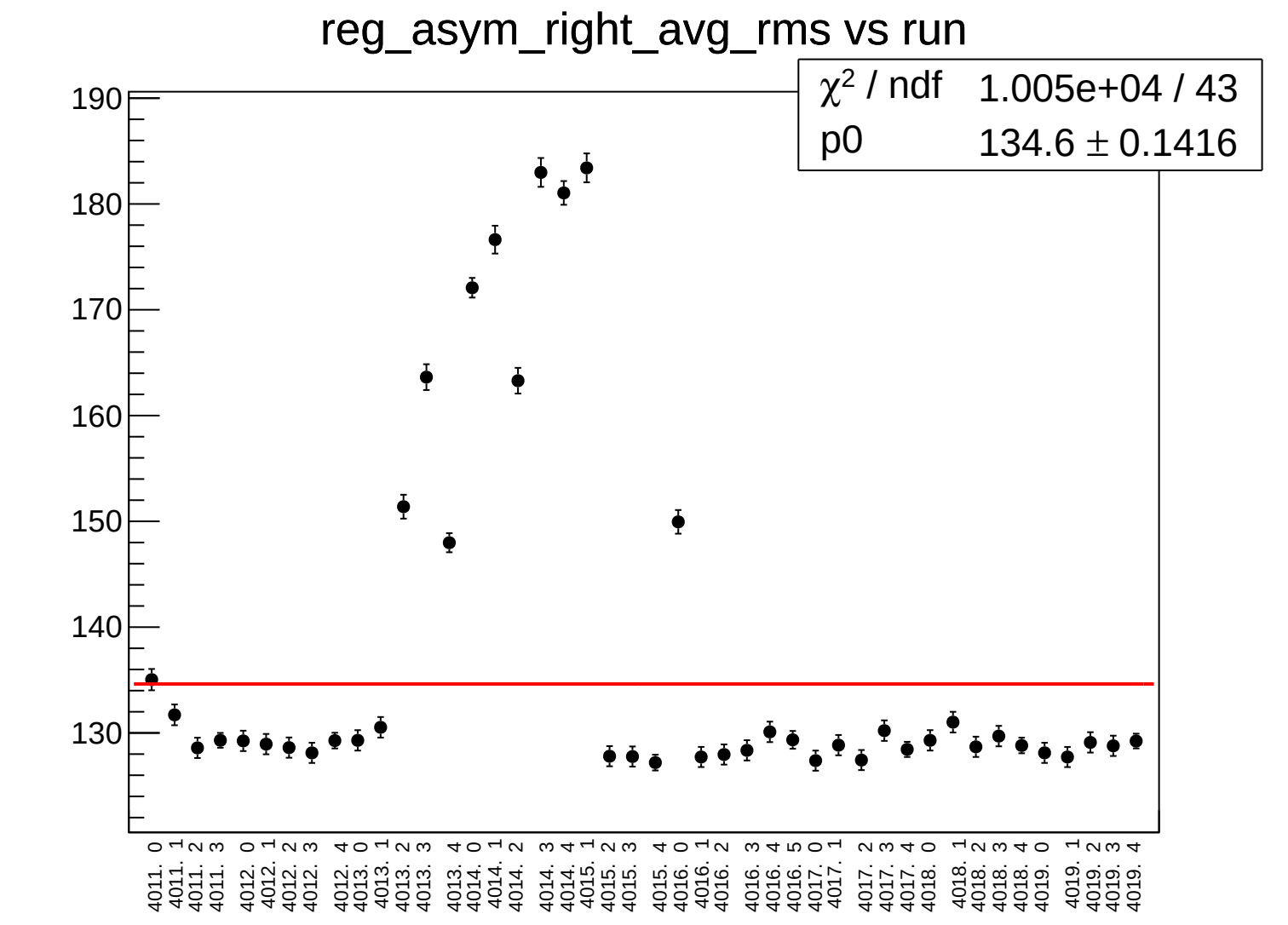

asym_left_dd_mean vs run
χ^2 / ndf 43.25 / 43
p0 53.61 ± 46.75
1000
500
0
−500
−1000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −2099
Std Dev 2122
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

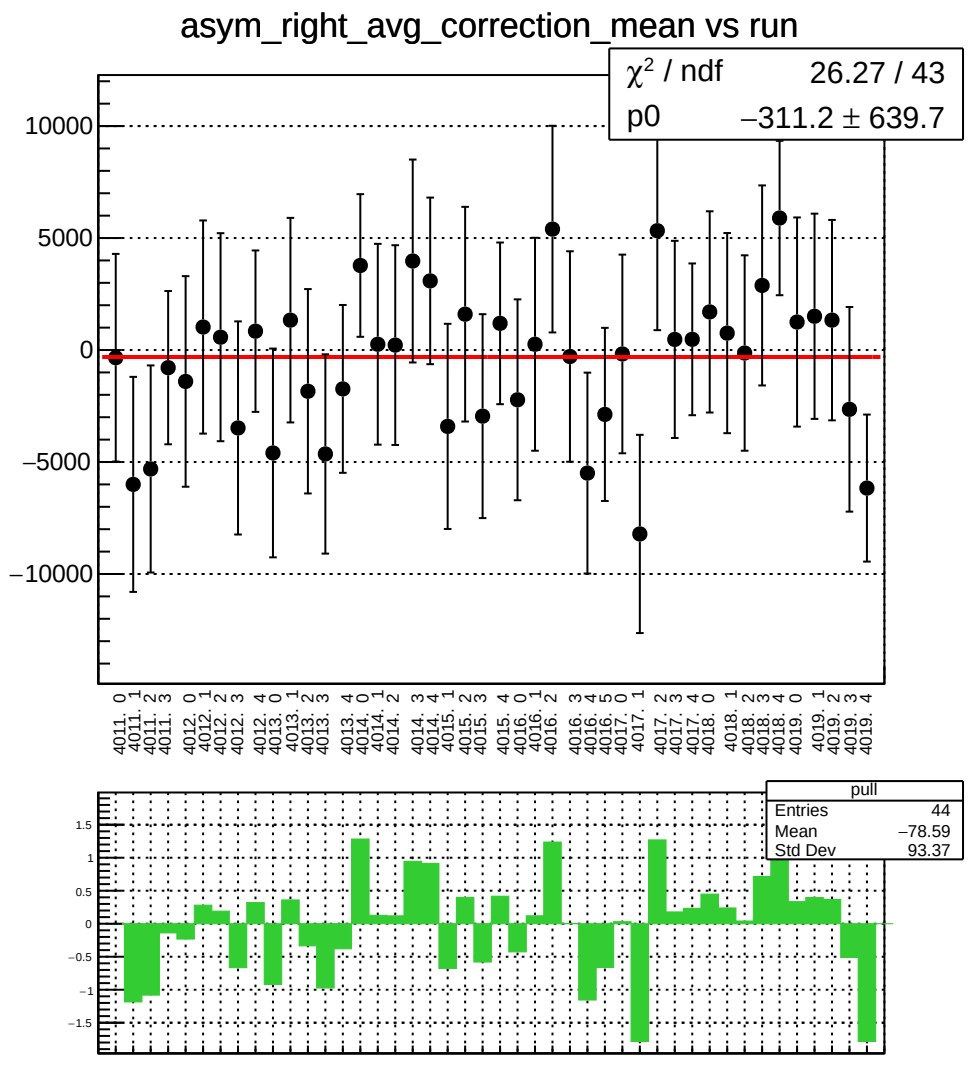

pull1D
Entries 44
Mean 0.001457
Std Dev 0.9914
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

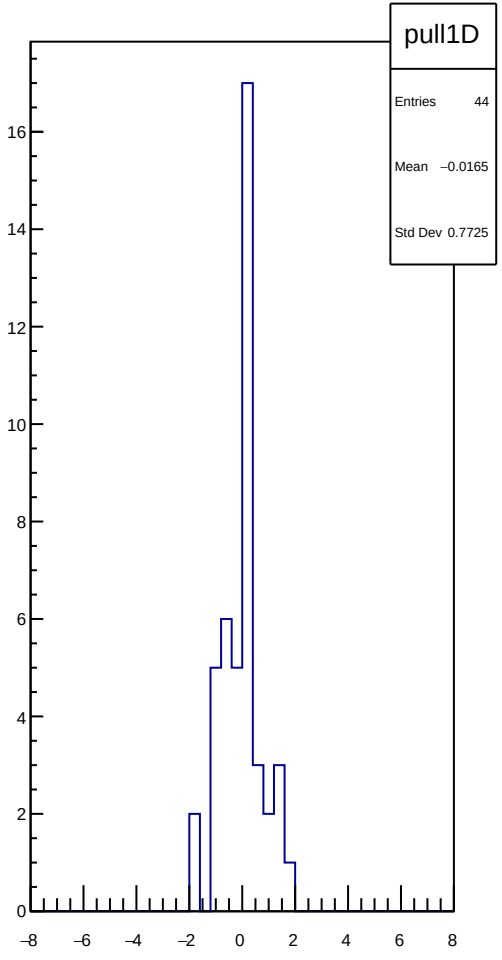

asym_left_dd_rms vs run
χ² / ndf 553.2 / 43
p0 31.6 ± 0.03306
33
32.5
32
31.5
31
30.5
30
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

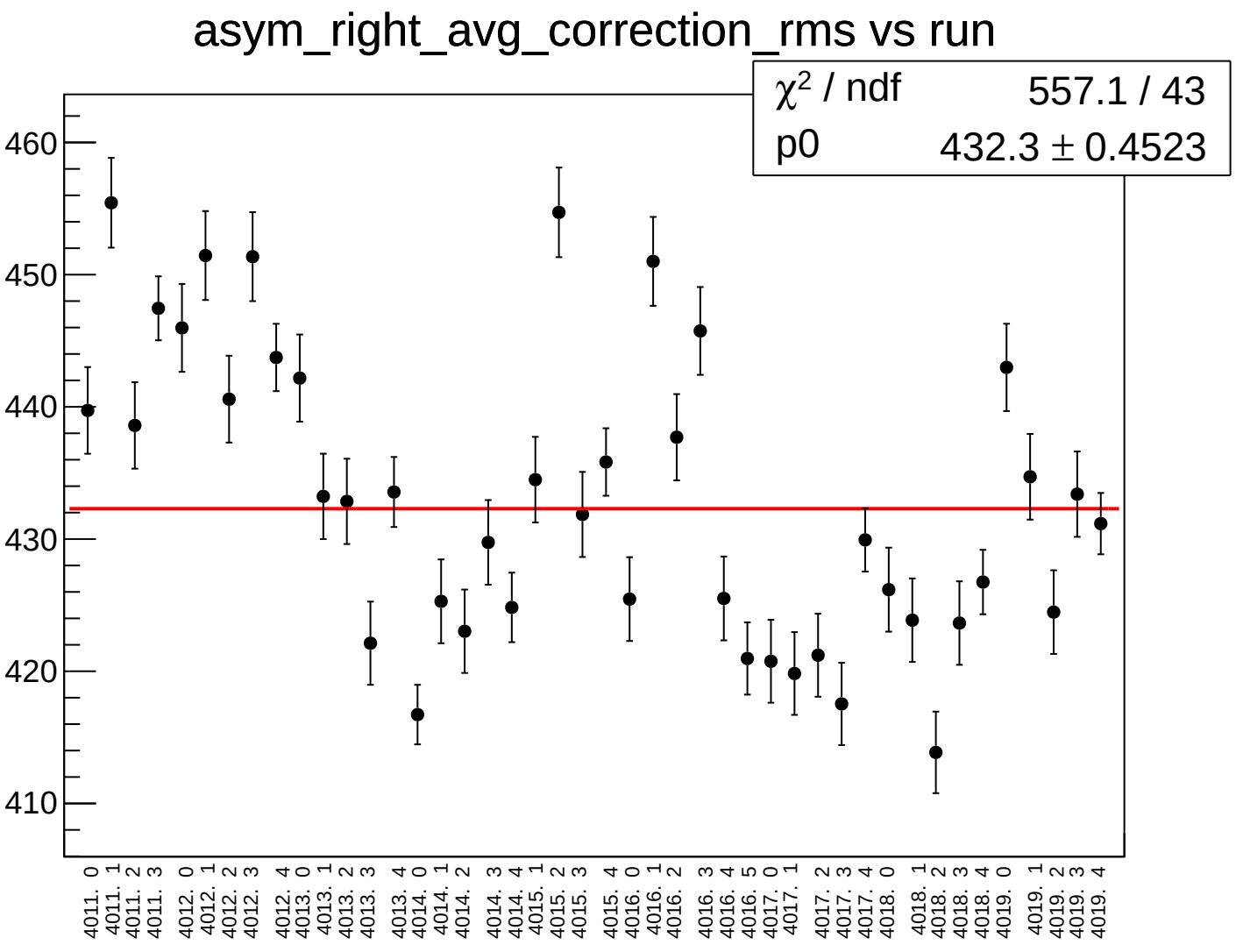

reg_asym_right_avg_mean vs run
χ² / ndf 35.02 / 43
p0 203.5 ± 200.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 238.2
Std Dev 216.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

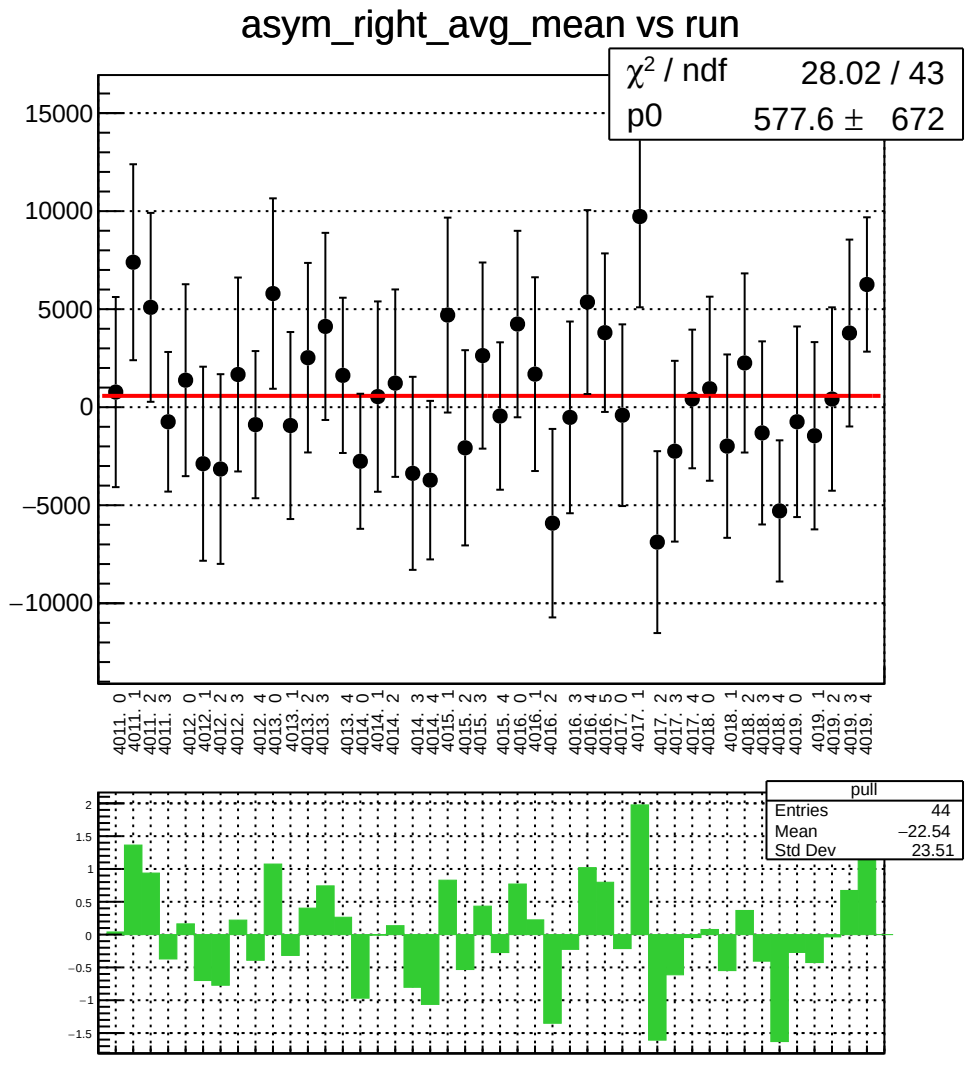

pull1D
Entries 44
Mean 0.01654
Std Dev 0.892
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

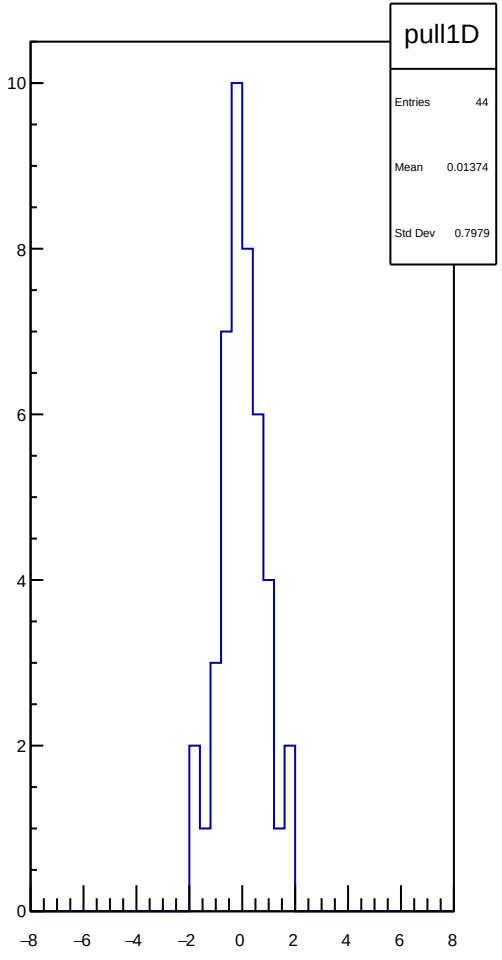

reg_asym_right_avg_rms vs run
χ² / ndf 1.005e+04 / 43
p0 134.6 ± 0.1416
190
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

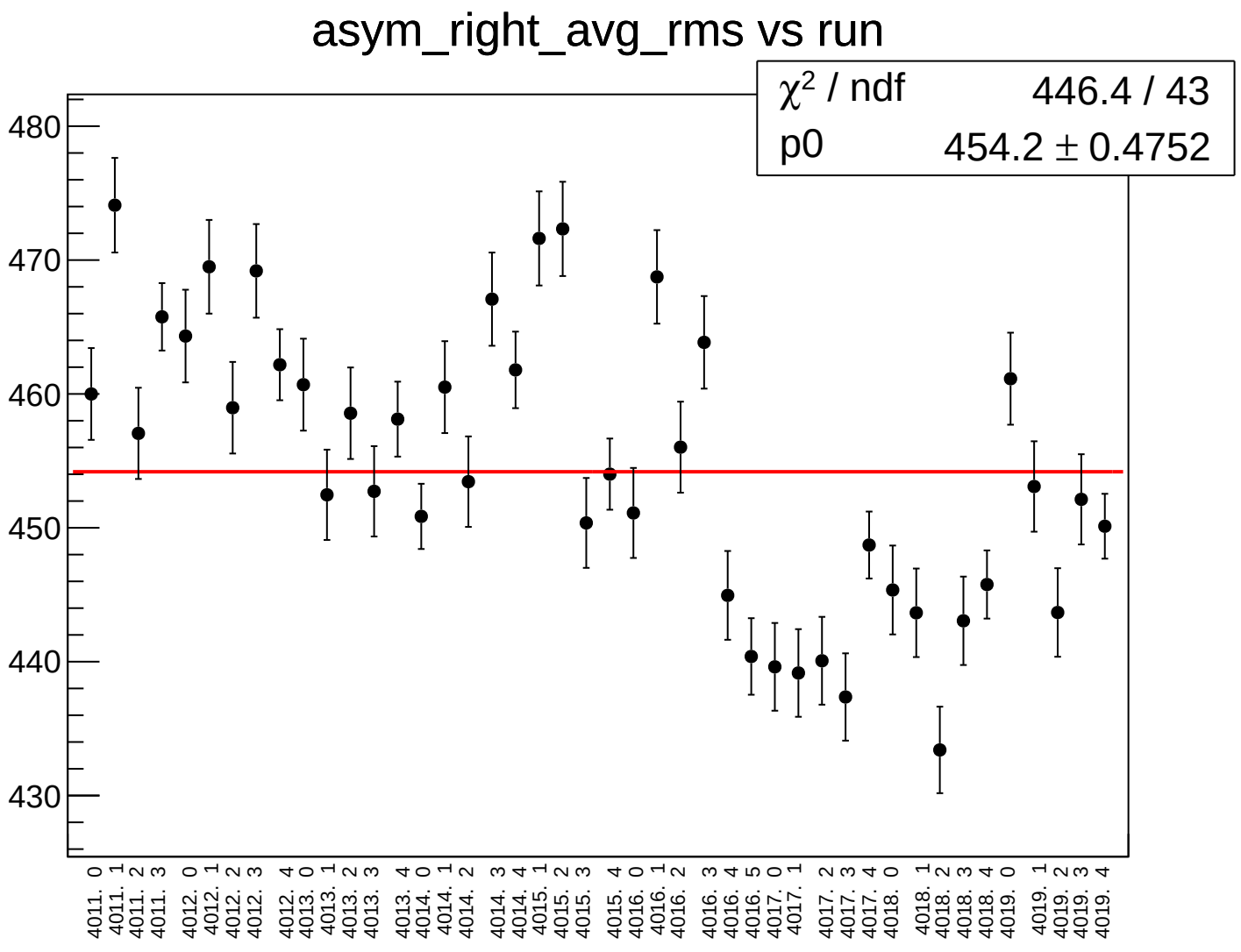

asym_right_avg_correction_mean vs run
χ² / ndf 26.27 / 43
p0 −311.2 ± 639.7
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −78.59
Std Dev 93.37
1.5
1
0.5
0
−0.5
−1
−1.5

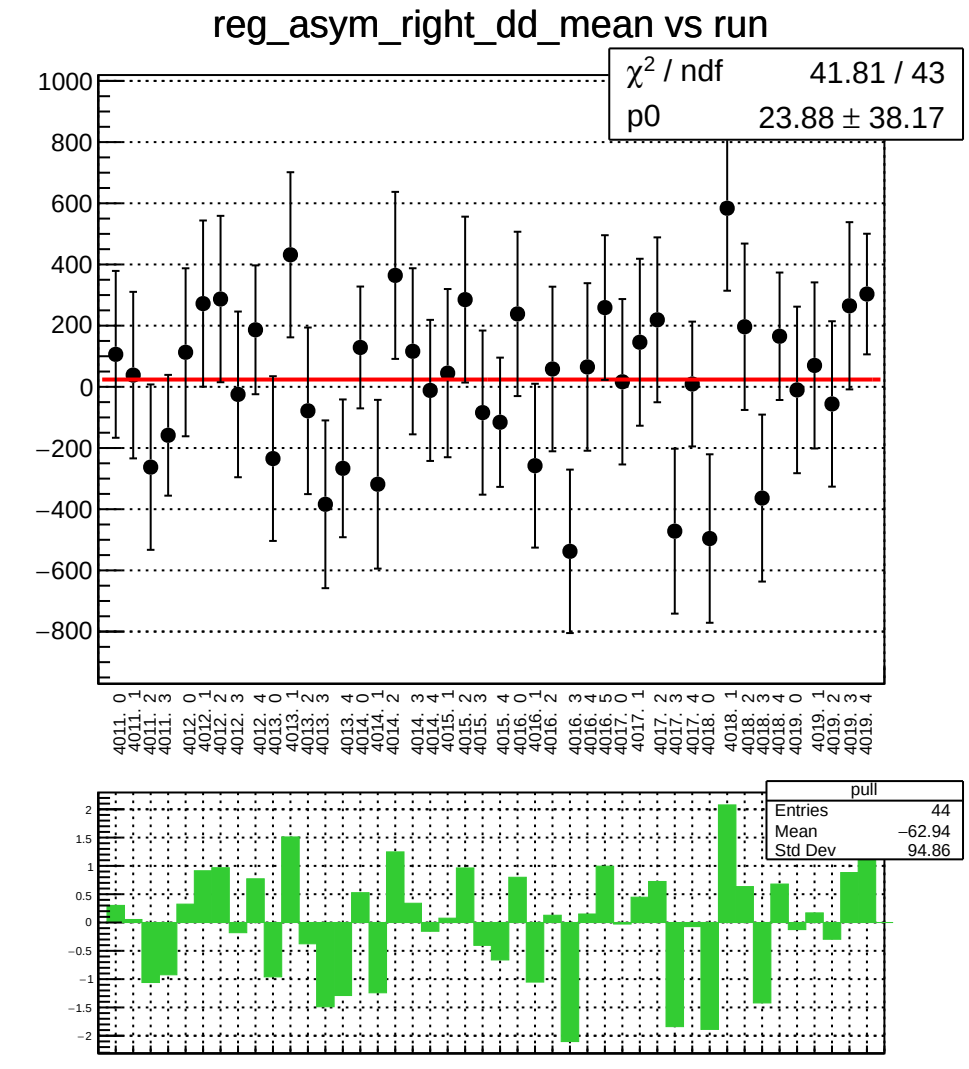

pull1D
Entries 44
Mean −0.0165
Std Dev 0.7725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

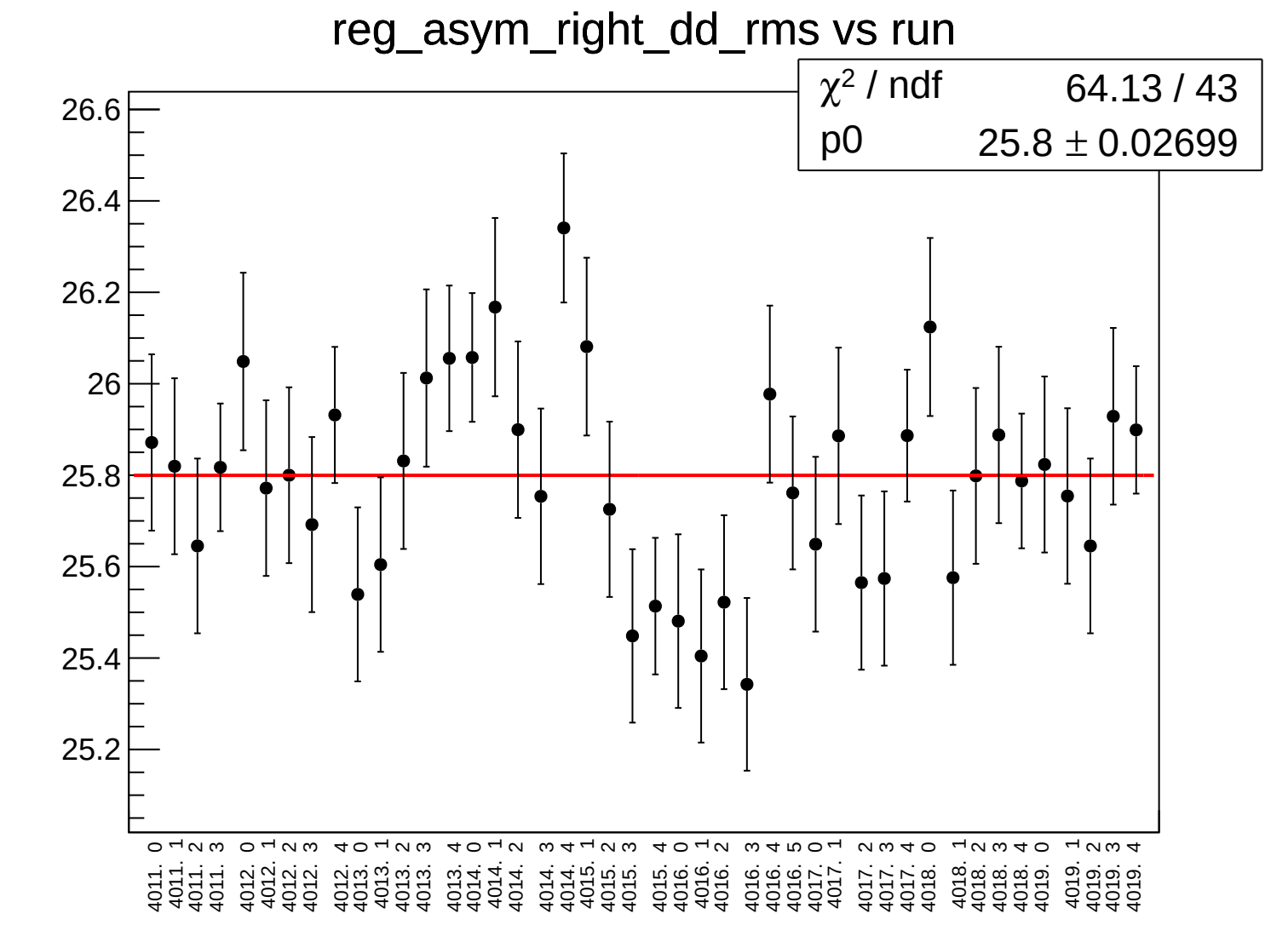

asym_right_avg_correction_rms vs run
χ² / ndf 557.1 / 43
p0 432.3 ± 0.4523
460
450
440
430
420
410
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

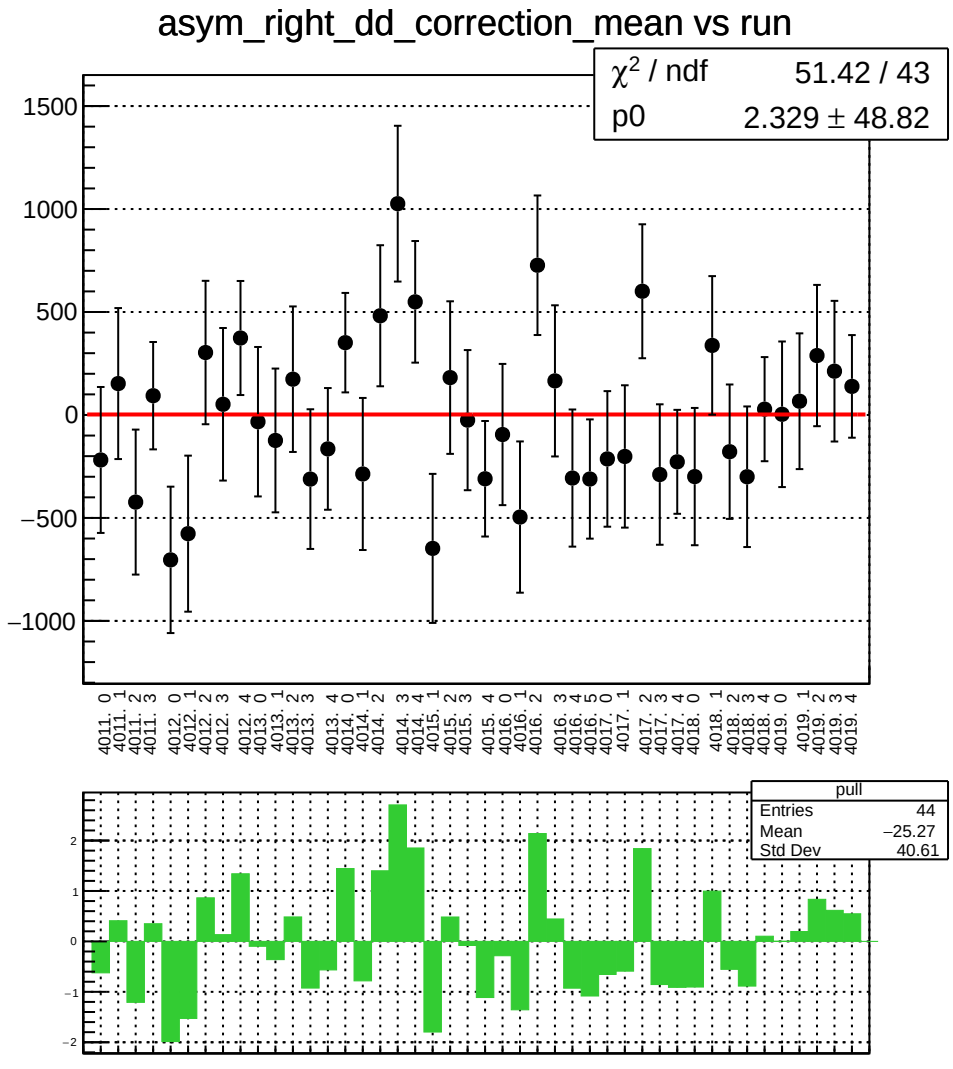

asym_right_avg_mean vs run
χ² / ndf 28.02 / 43
p0 577.6 ± 672
15000
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −22.54
Std Dev 23.51
2
1.5
1
0.5
0
−0.5
−1
−1.5

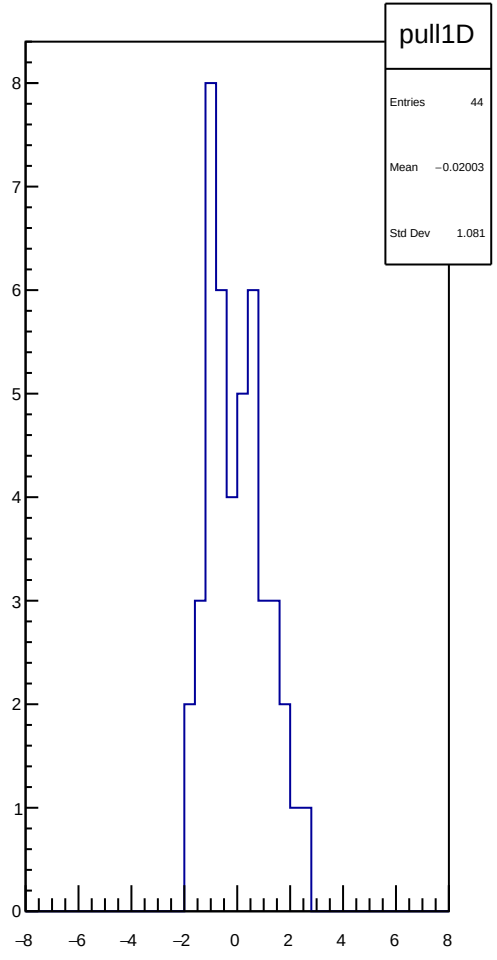

pull1D
Entries 44
Mean 0.01374
Std Dev 0.7979
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

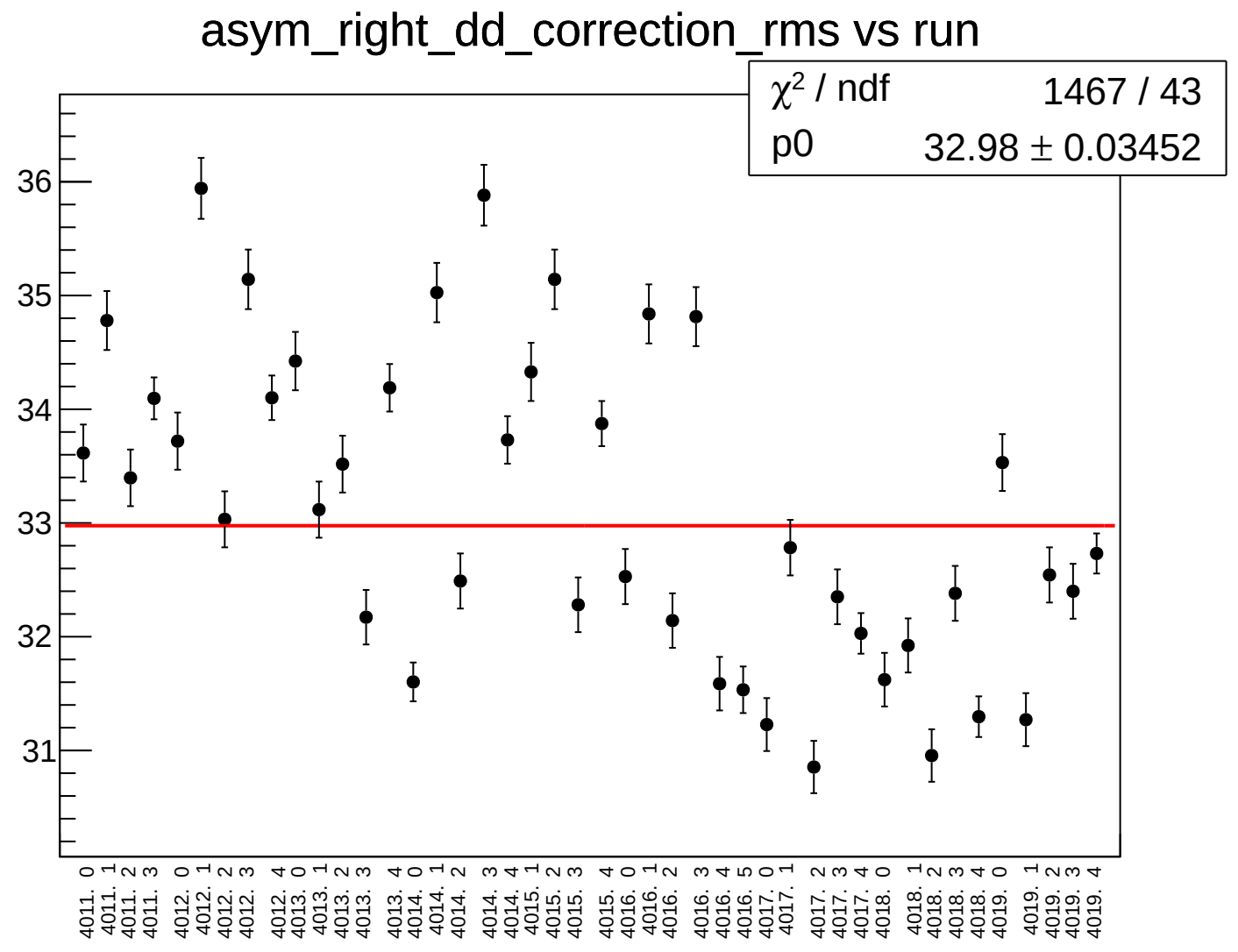

asym_right_avg_rms vs run
χ² / ndf 446.4 / 43
p0 454.2 ± 0.4752
480
470
460
450
440
430
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

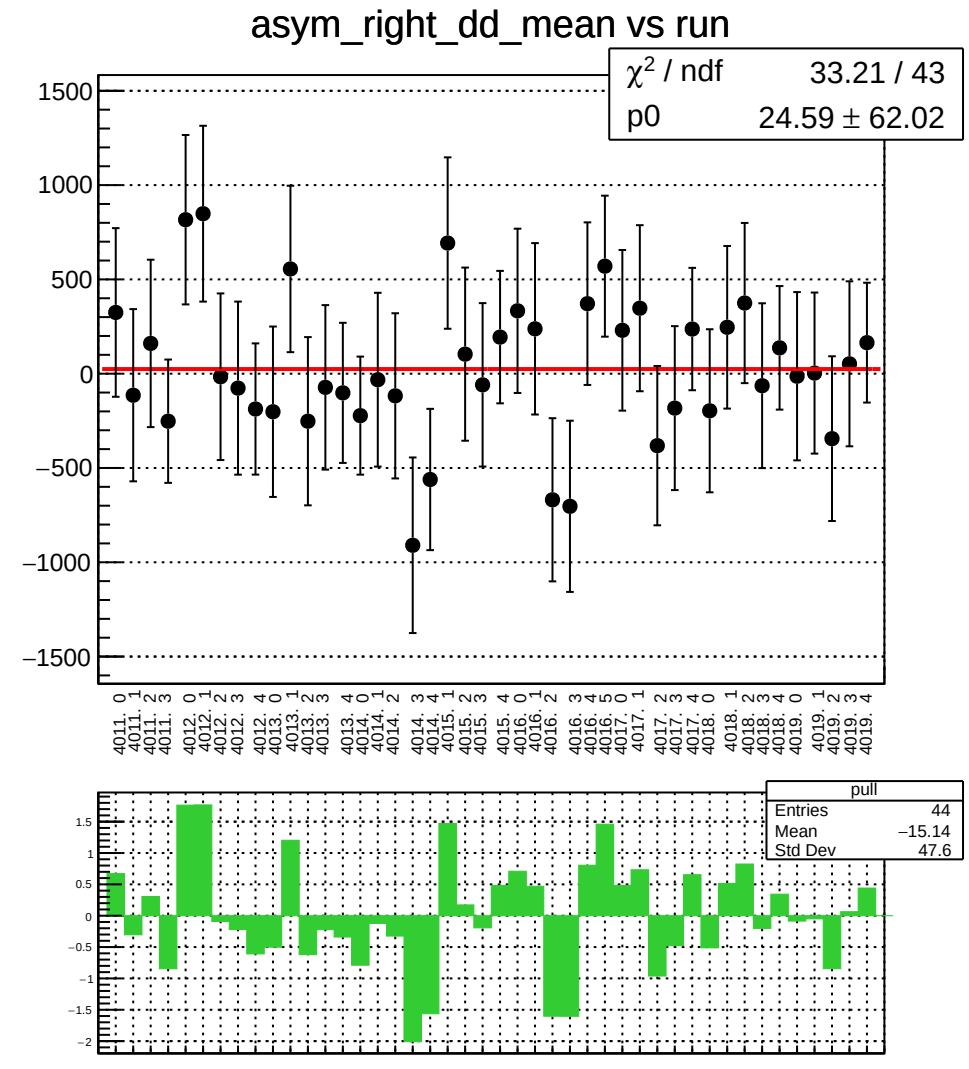

reg_asym_right_dd_mean vs run
χ² / ndf 41.81 / 43
p0 23.88 ± 38.17
1000
800
600
400
200
0
−200
−400
−600
−800
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −62.94
Std Dev 94.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean −0.01031
Std Dev 0.9748
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

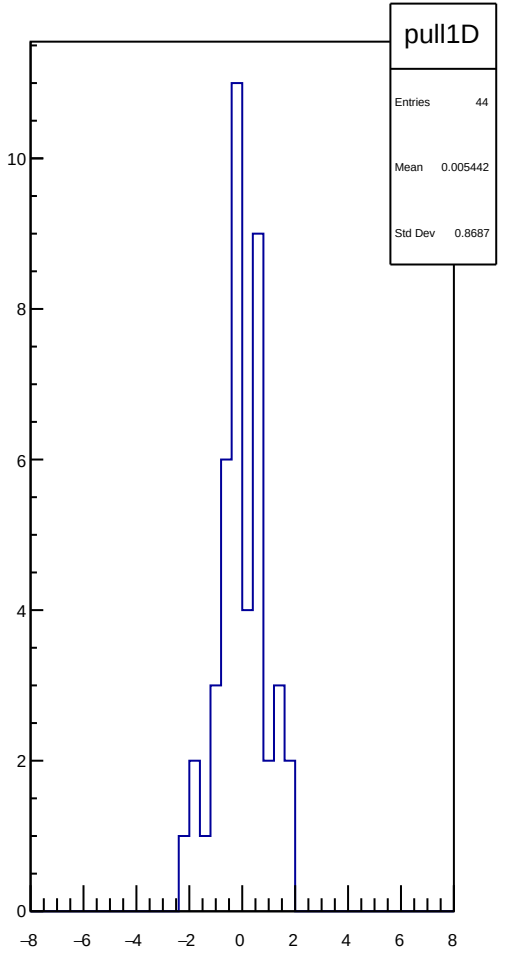

reg_asym_right_dd_rms vs run
χ² / ndf 64.13 / 43
p0 25.8 ± 0.02699
26.6
26.4
26.2
26
25.8
25.6
25.4
25.2
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

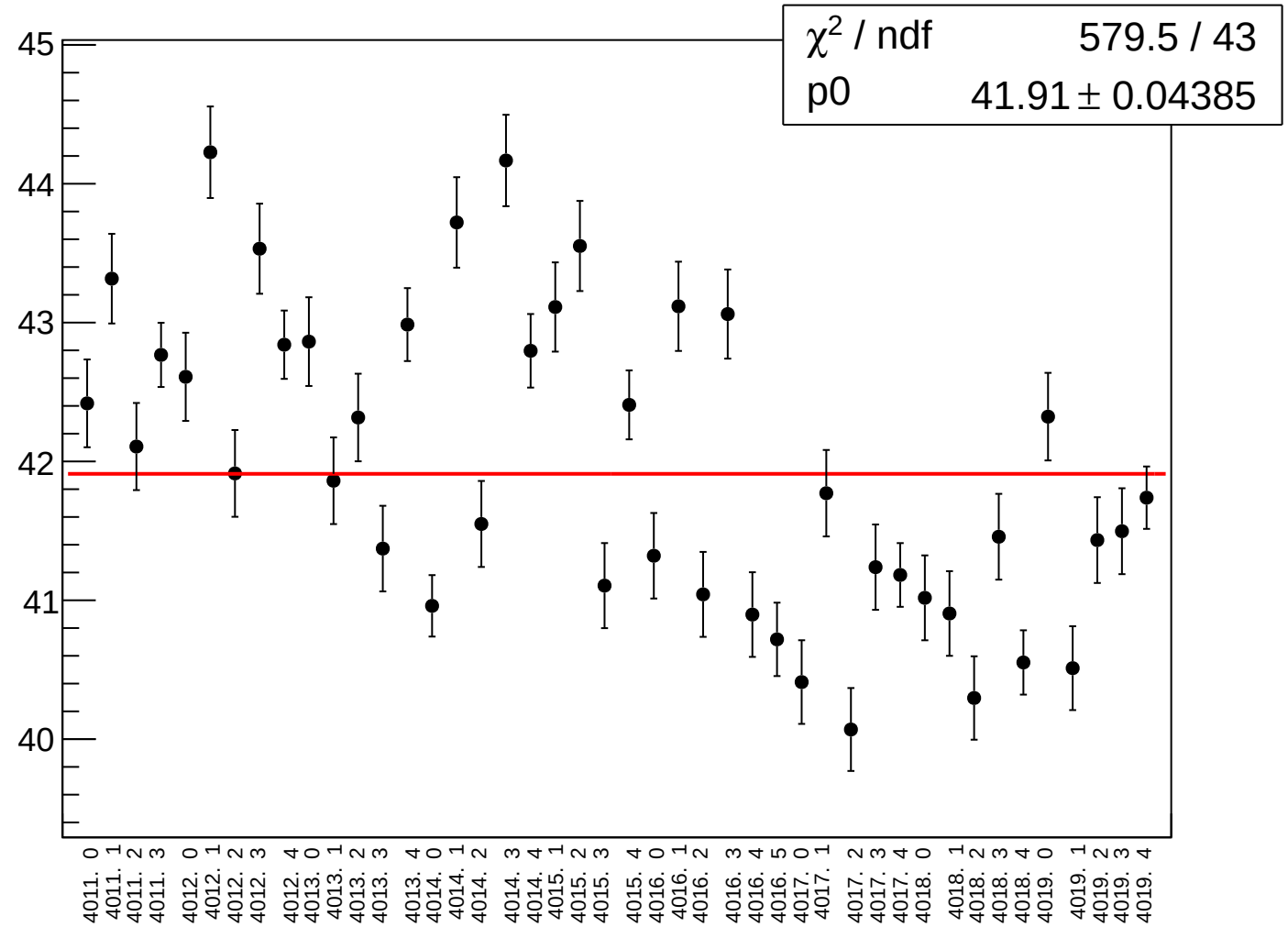

asym_right_dd_correction_mean vs run
χ² / ndf 51.42 / 43
p0 2.329 ± 48.82
1500
1000
500
0
−500
−1000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −25.27
Std Dev 40.61
2
1
0
−1
−2

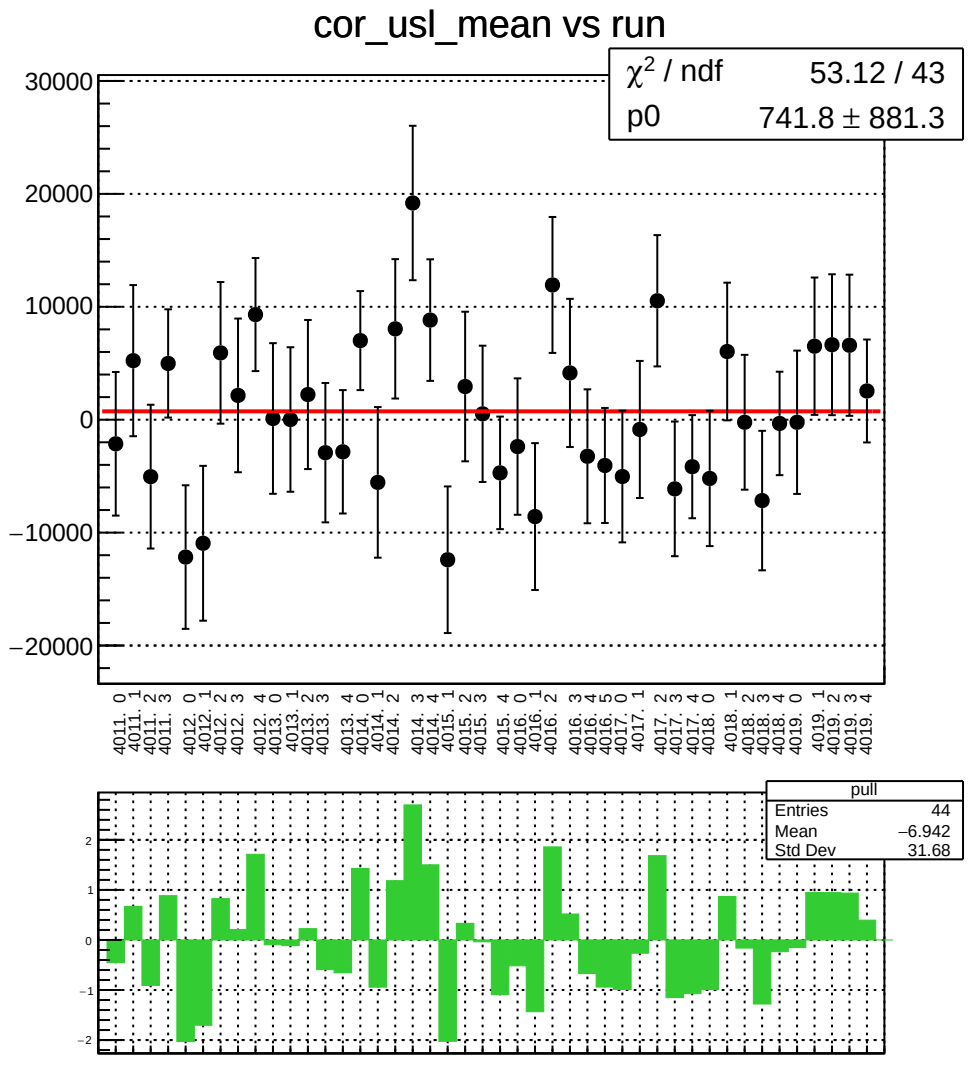

pull1D
Entries 44
Mean −0.02003
Std Dev 1.081
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

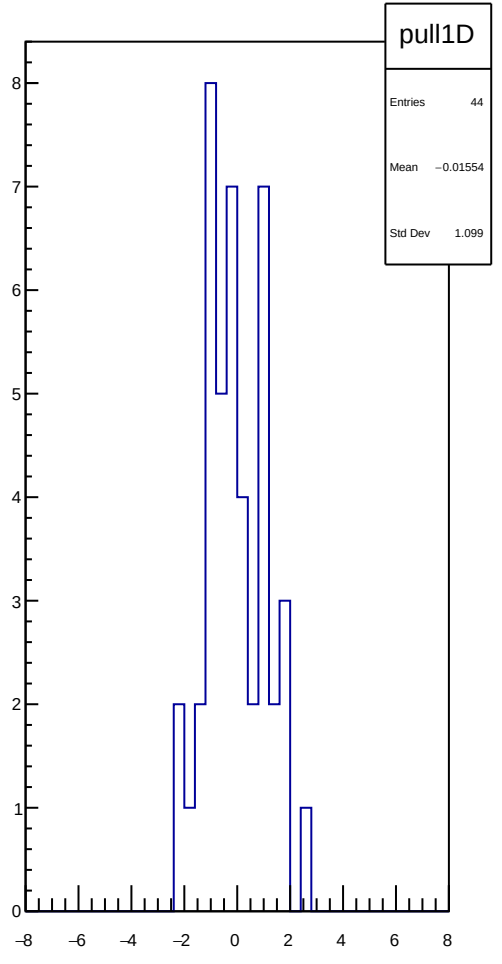

asym_right_dd_correction_rms vs run
χ² / ndf 1467 / 43
p0 32.98 ± 0.03452
36
35
34
33
32
31
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

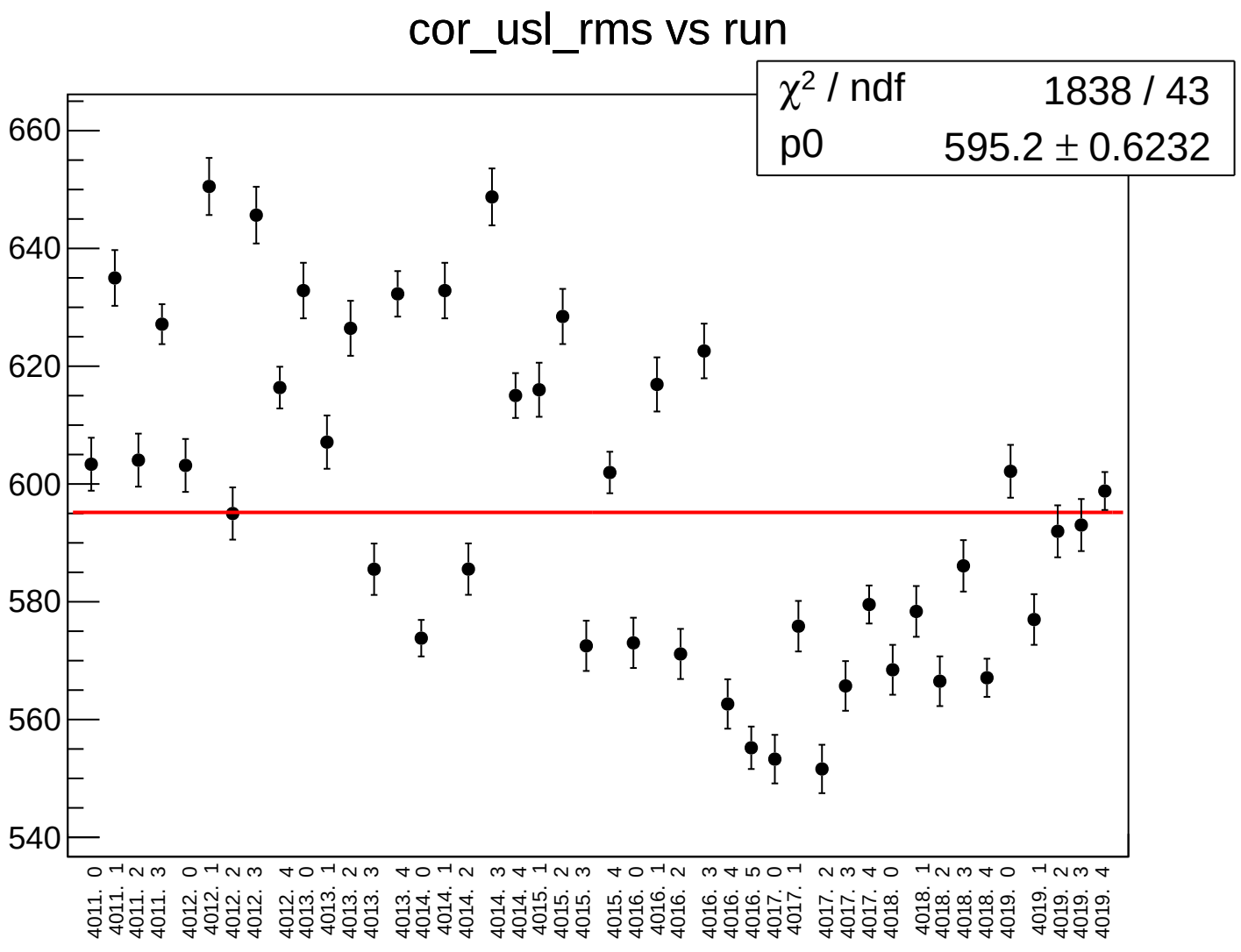

asym_right_dd_mean vs run
χ^2 / ndf 33.21 / 43
p0 24.59 ± 62.02
1500
1000
500
0
−500
−1000
−1500
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −15.14
Std Dev 47.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

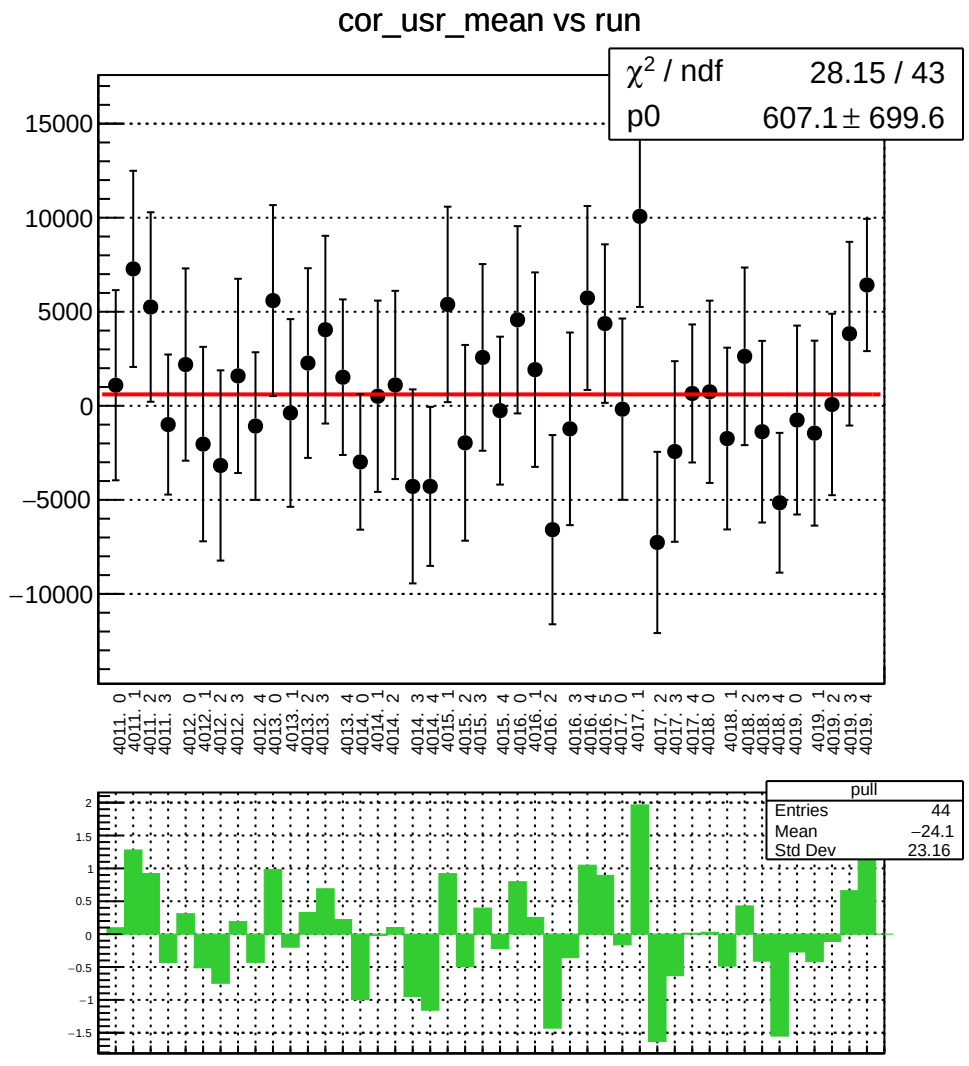

pull1D
Entries 44
Mean 0.005442
Std Dev 0.8687
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

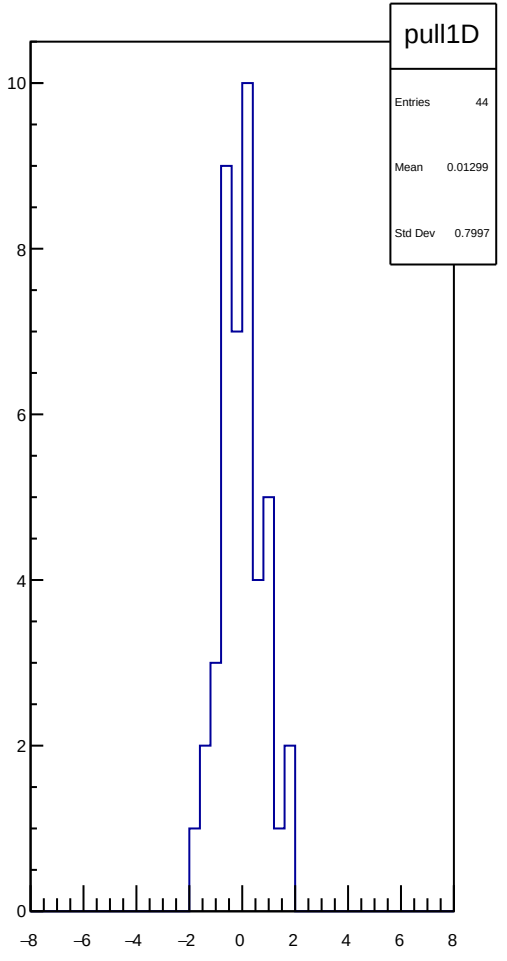

asym_right_dd_rms vs run
χ^2 / ndf 579.5 / 43
p0 41.91 ± 0.04385
45
44
43
42
41
40
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

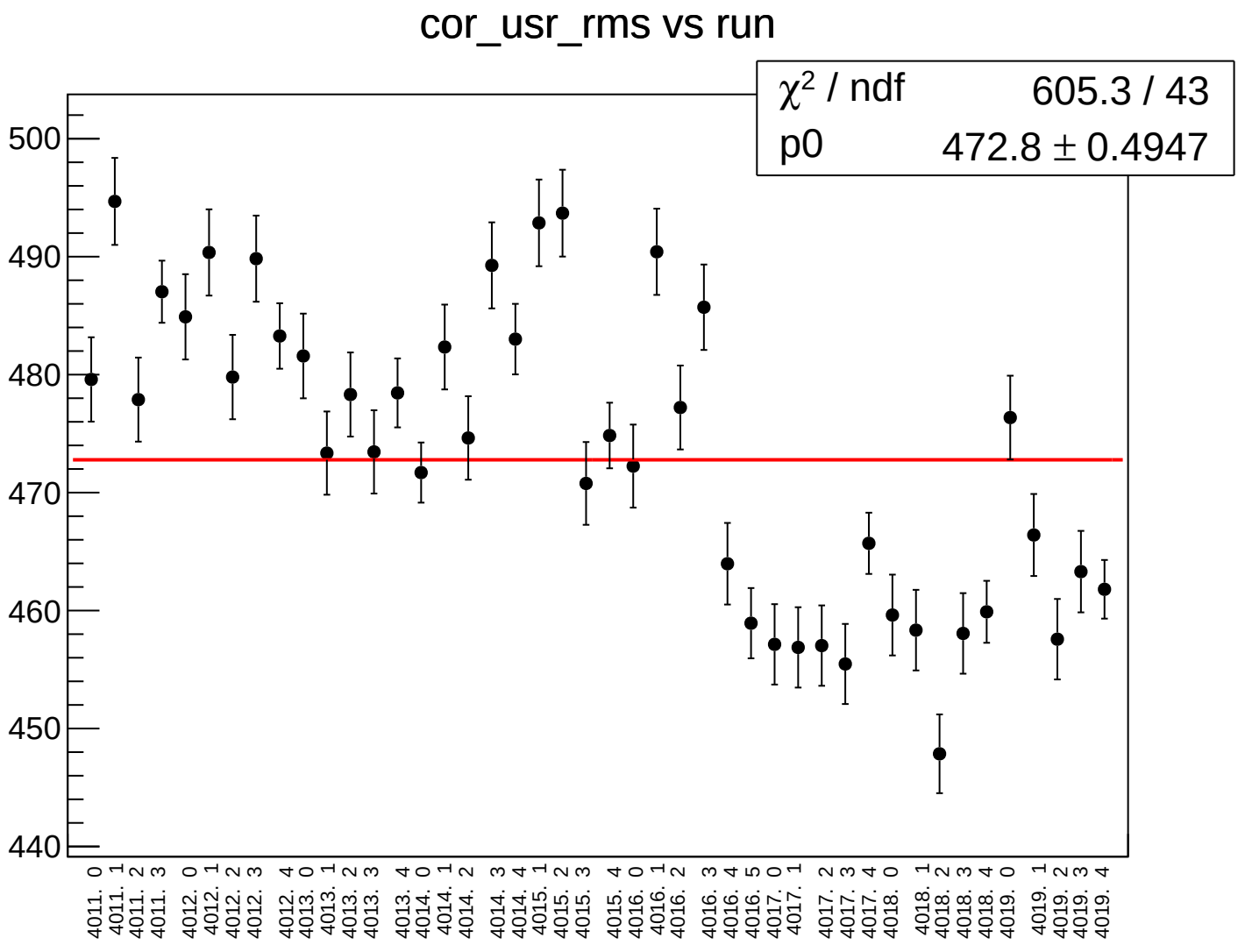

cor_usl_mean vs run
χ² / ndf 53.12 / 43
p0 741.8 ± 881.3
30000
20000
10000
0
−10000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −6.942
Std Dev 31.68
2
1
0
−1
−2

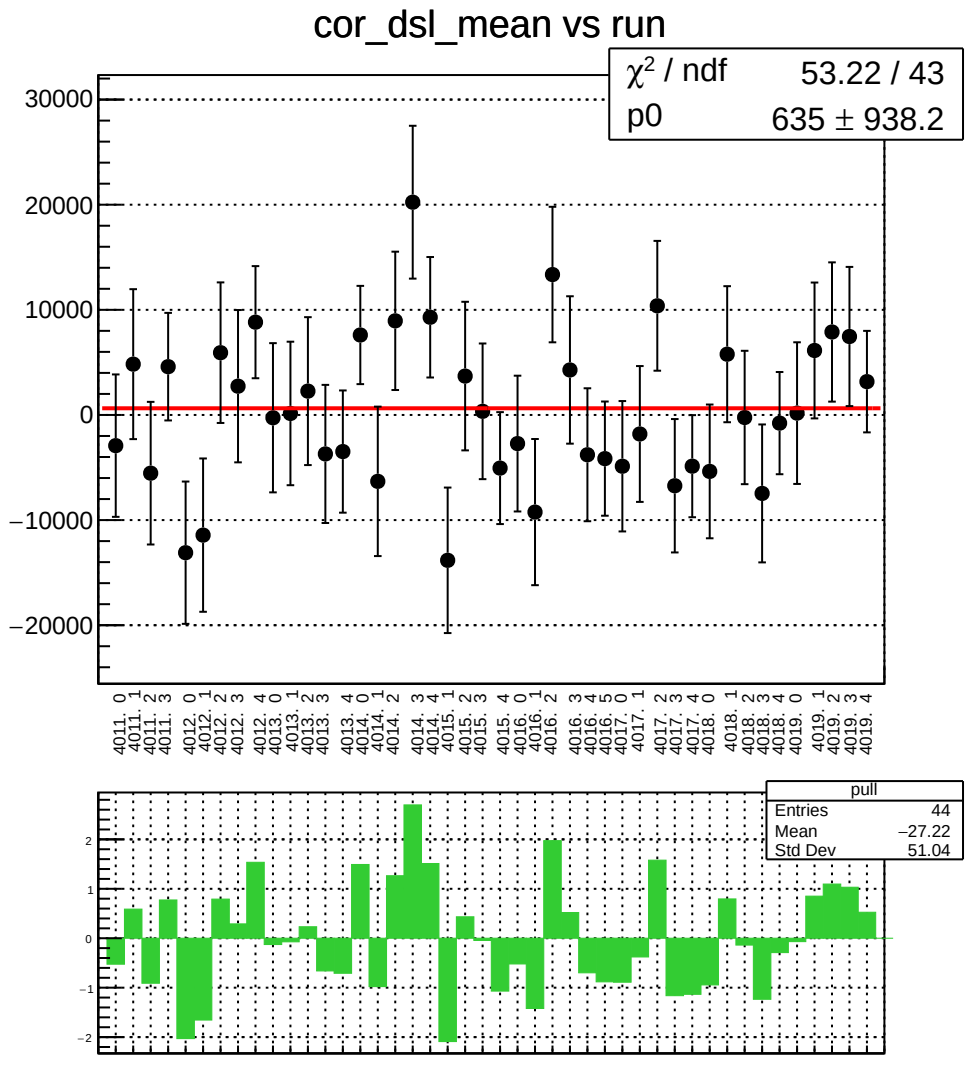

pull1D
Entries 44
Mean −0.01554
Std Dev 1.099
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

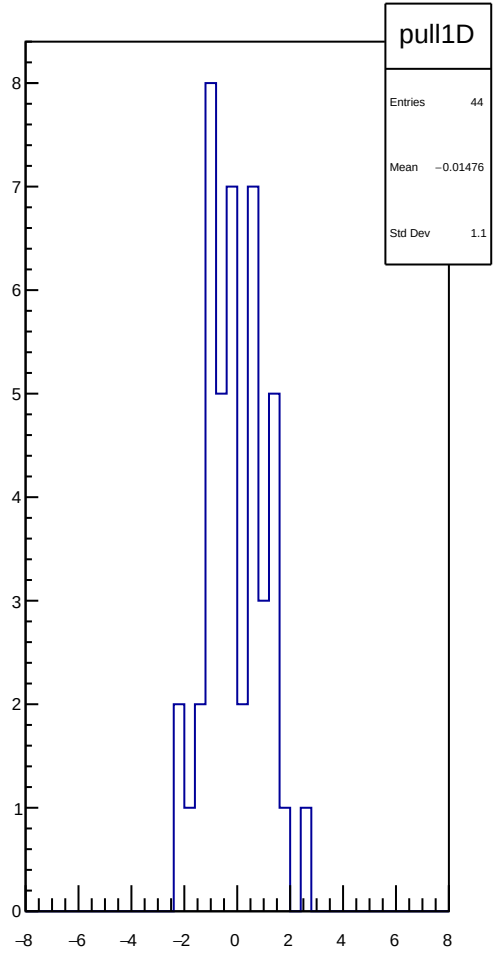

cor_usl_rms vs run
χ² / ndf 1838 / 43
p0 595.2 ± 0.6232
660
640
620
600
580
560
540
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

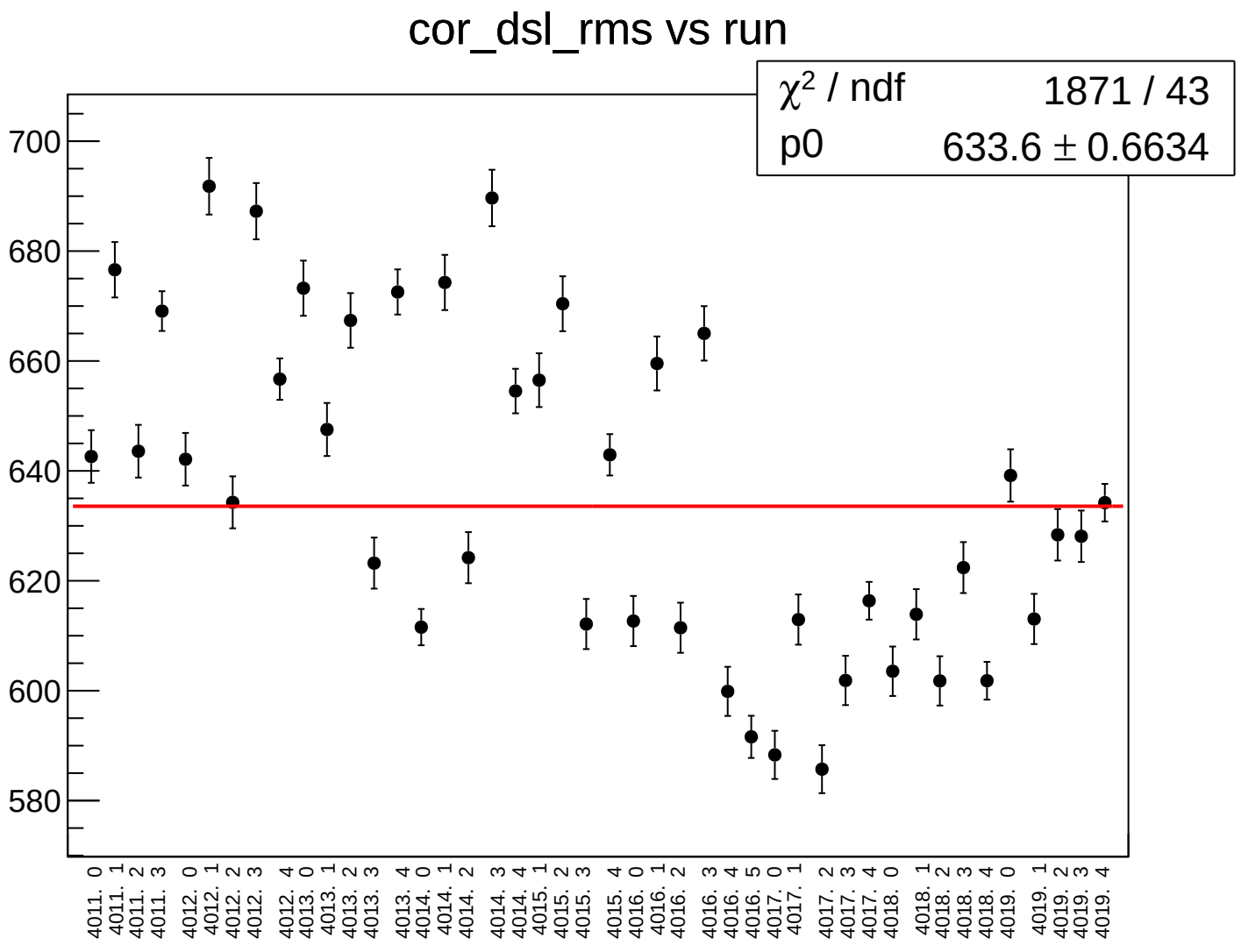

cor_usr_mean vs run
χ² / ndf 28.15 / 43
p0 607.1 ± 699.6
15000
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −24.1
Std Dev 23.16
2
1.5
1
0.5
0
−0.5
−1
−1.5

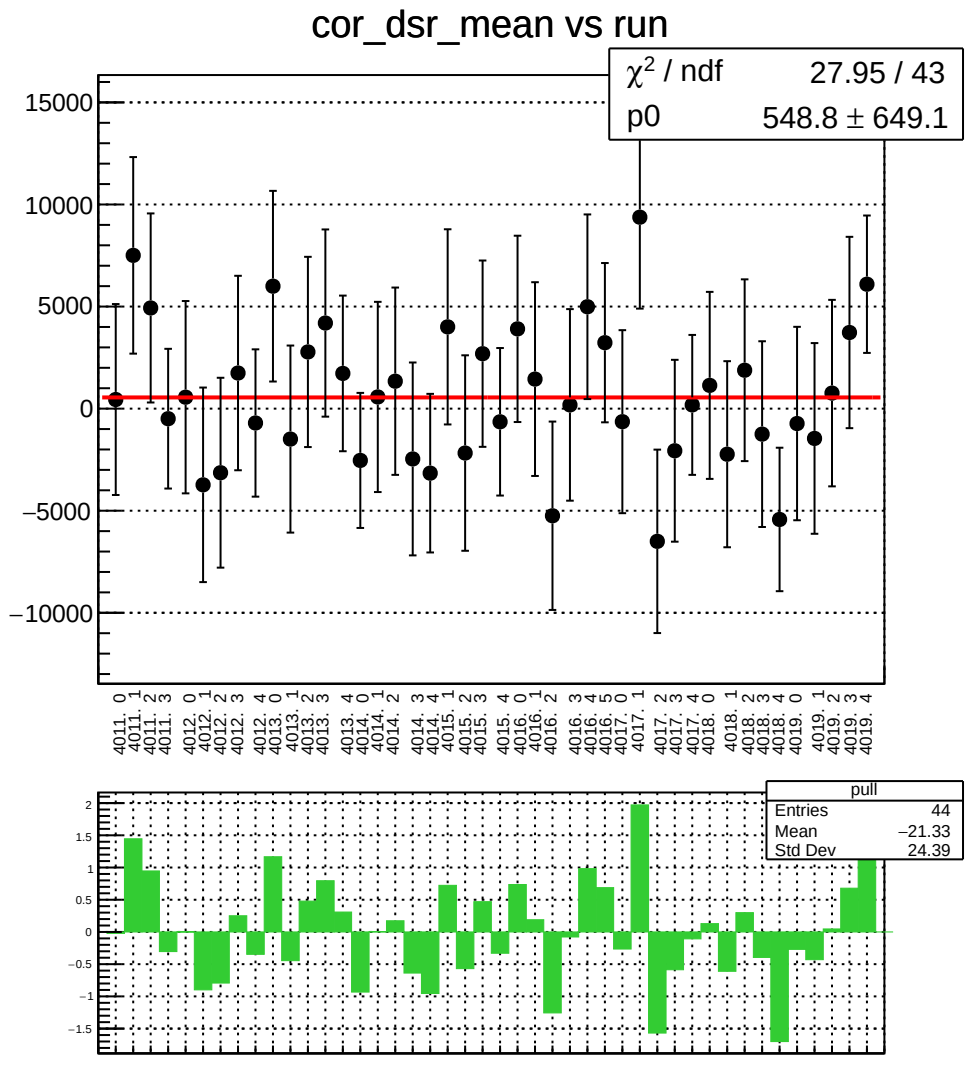

pull1D
Entries 44
Mean 0.01299
Std Dev 0.7997
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

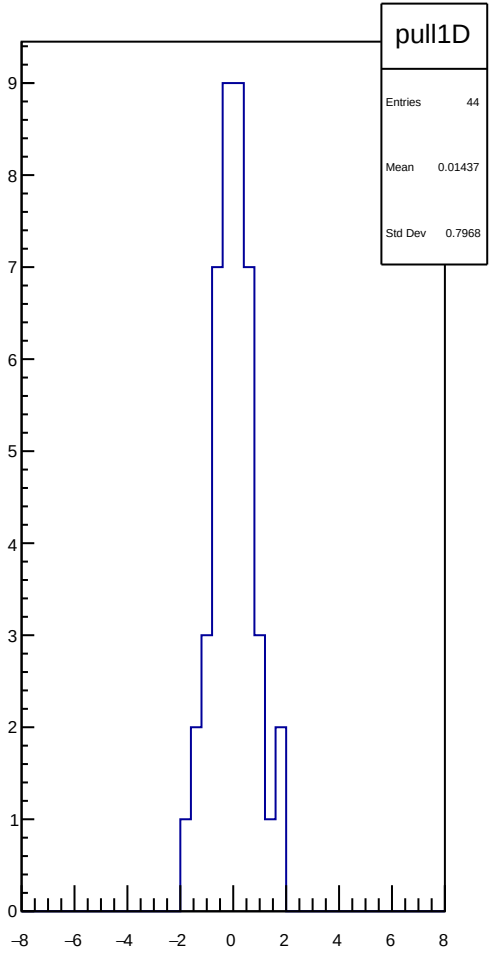

cor_usr_rms vs run
χ² / ndf 605.3 / 43
p0 472.8 ± 0.4947
500
490
480
470
460
450
440
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

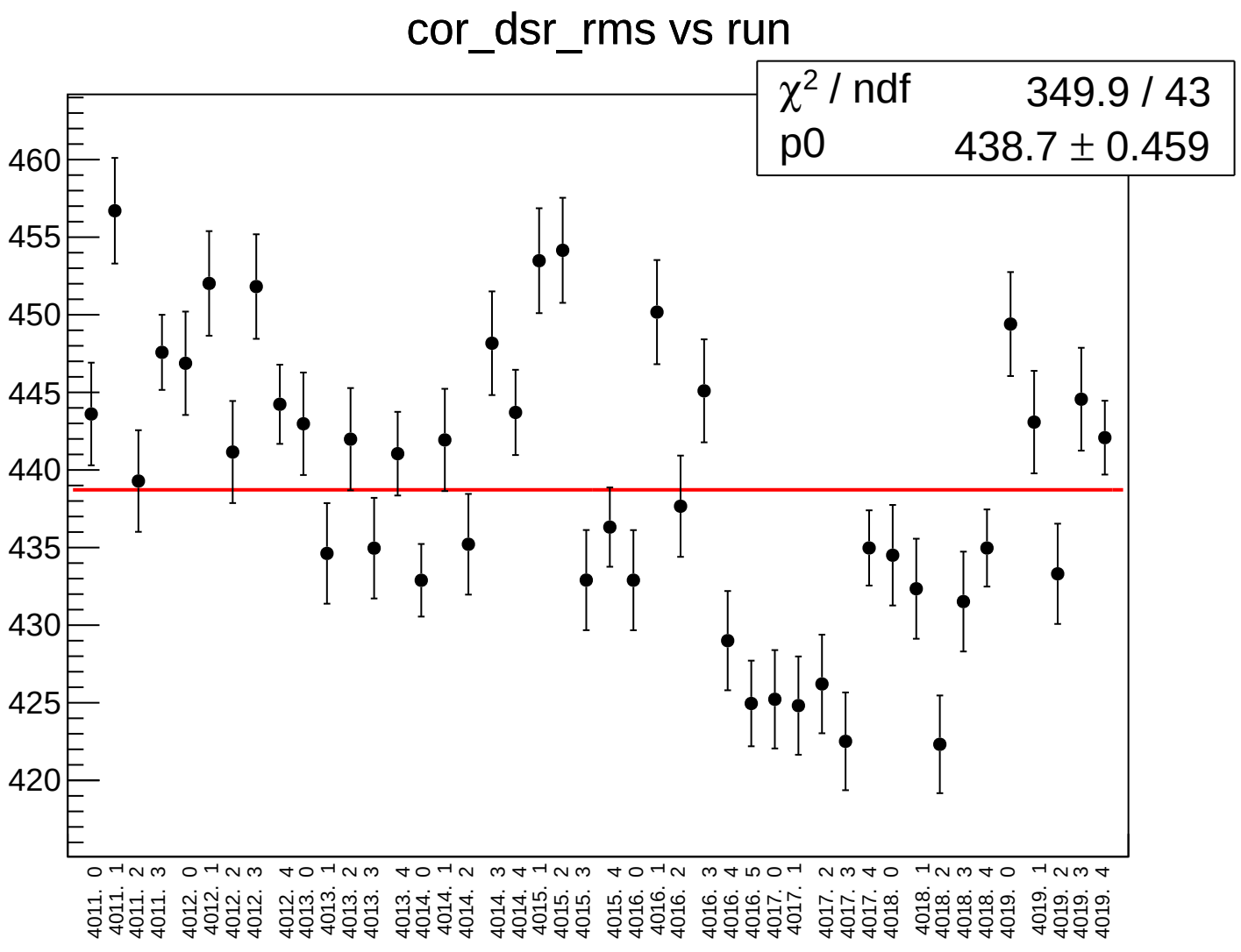

cor_dsl_mean vs run
χ² / ndf 53.22 / 43
p0 635 ± 938.2
30000
20000
10000
0
−10000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −27.22
Std Dev 51.04
2
1
0
−1
−2

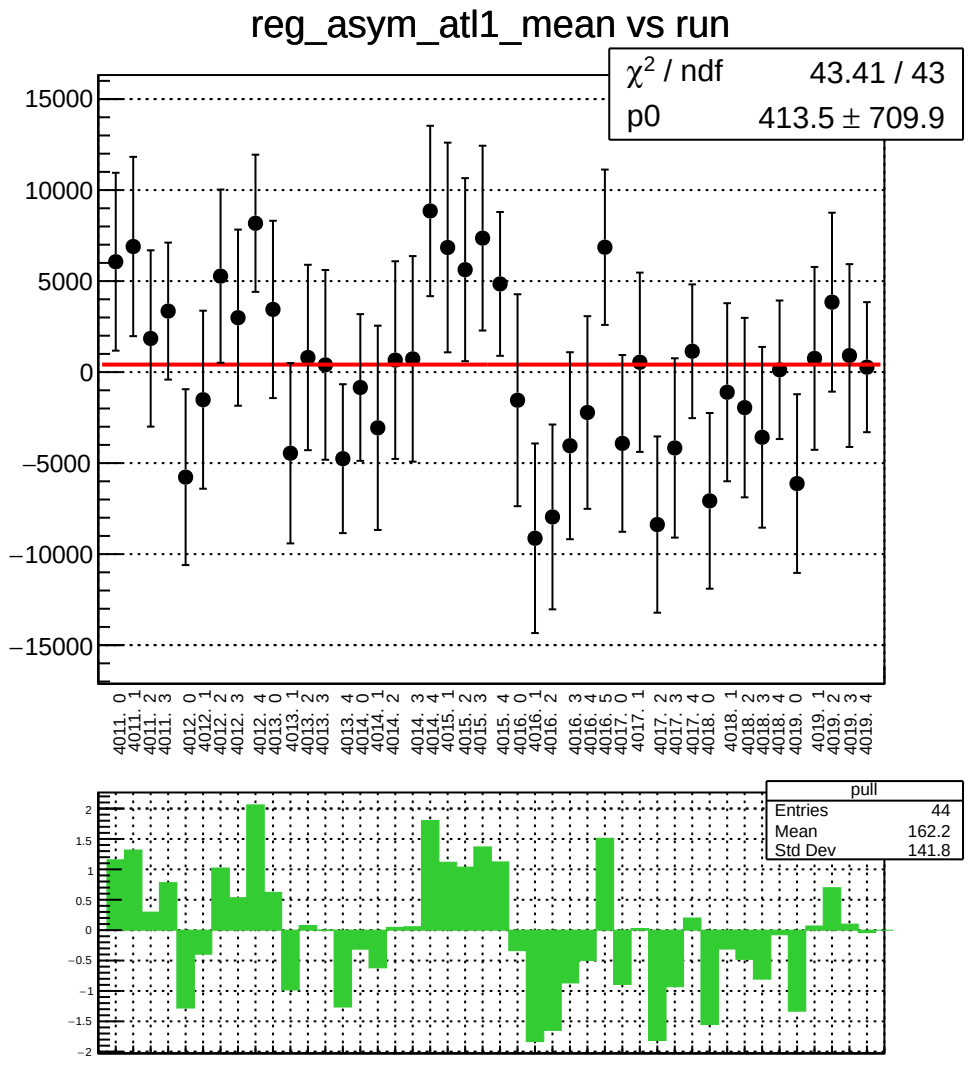

pull1D
Entries 44
Mean −0.01476
Std Dev 1.1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

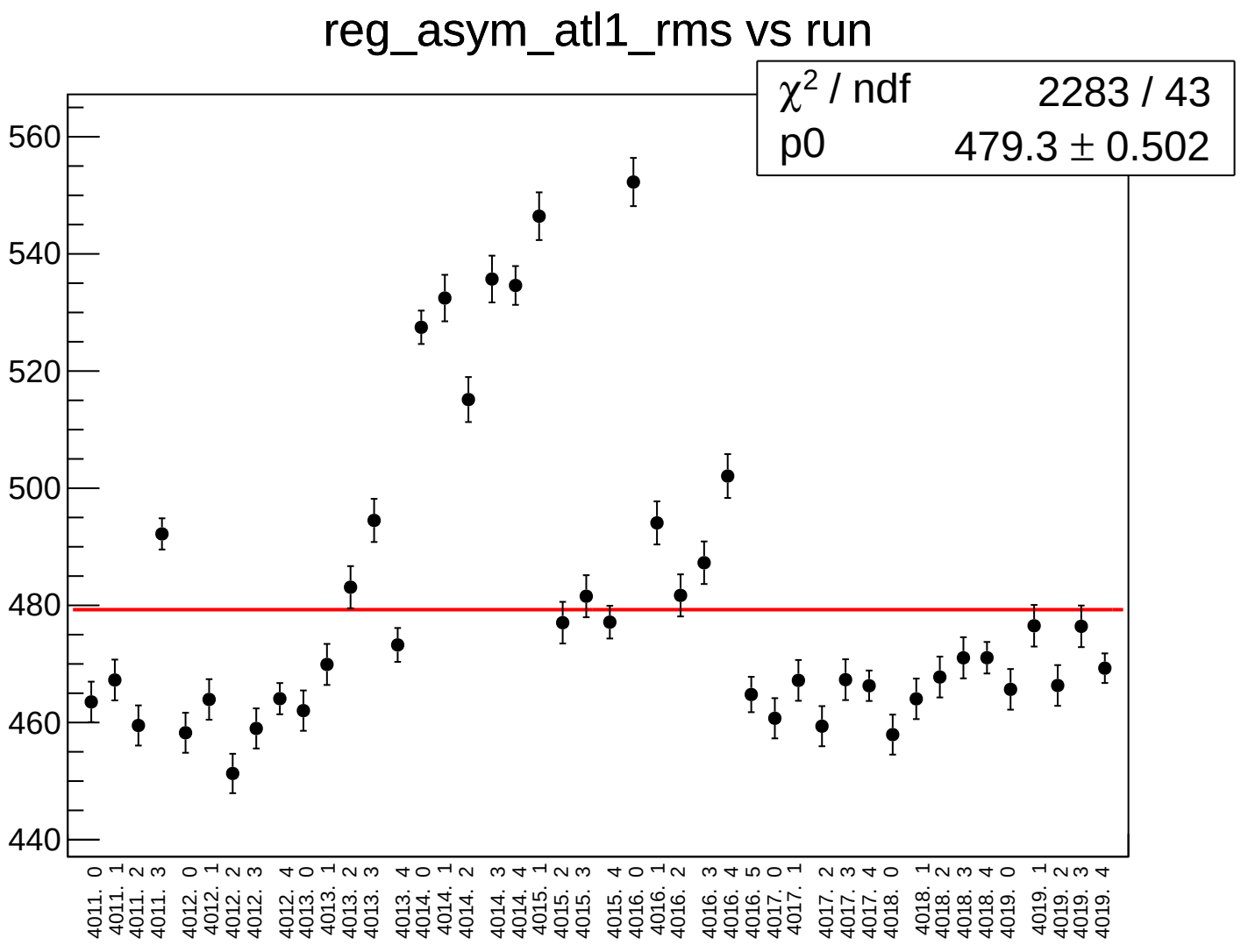

cor_dsl_rms vs run
χ² / ndf 1871 / 43
p0 633.6 ± 0.6634
700
680
660
640
620
600
580
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

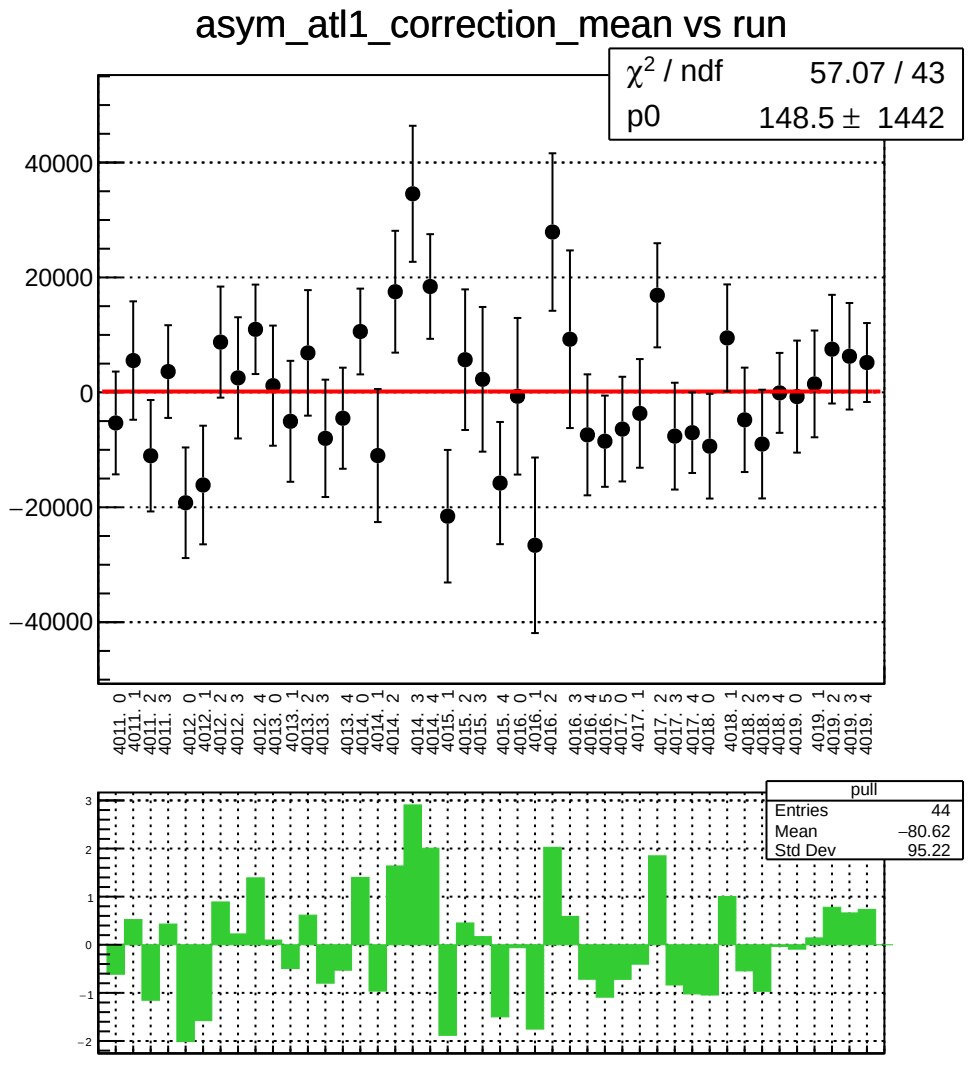

cor_dsr_mean vs run
χ² / ndf 27.95 / 43
p0 548.8 ± 649.1
15000
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4016. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −21.33
Std Dev 24.39
2
1.5
1
0.5
0
−0.5
−1
−1.5

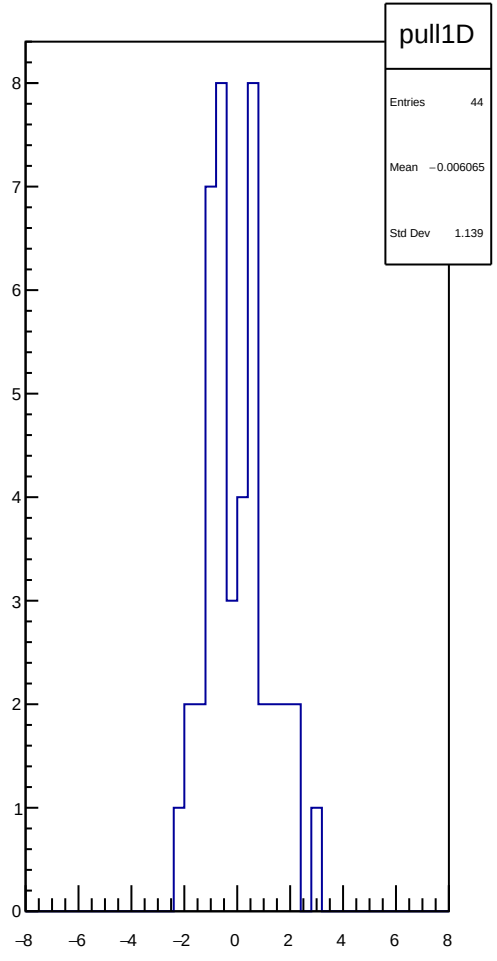

pull1D
Entries 44
Mean 0.01437
Std Dev 0.7968
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

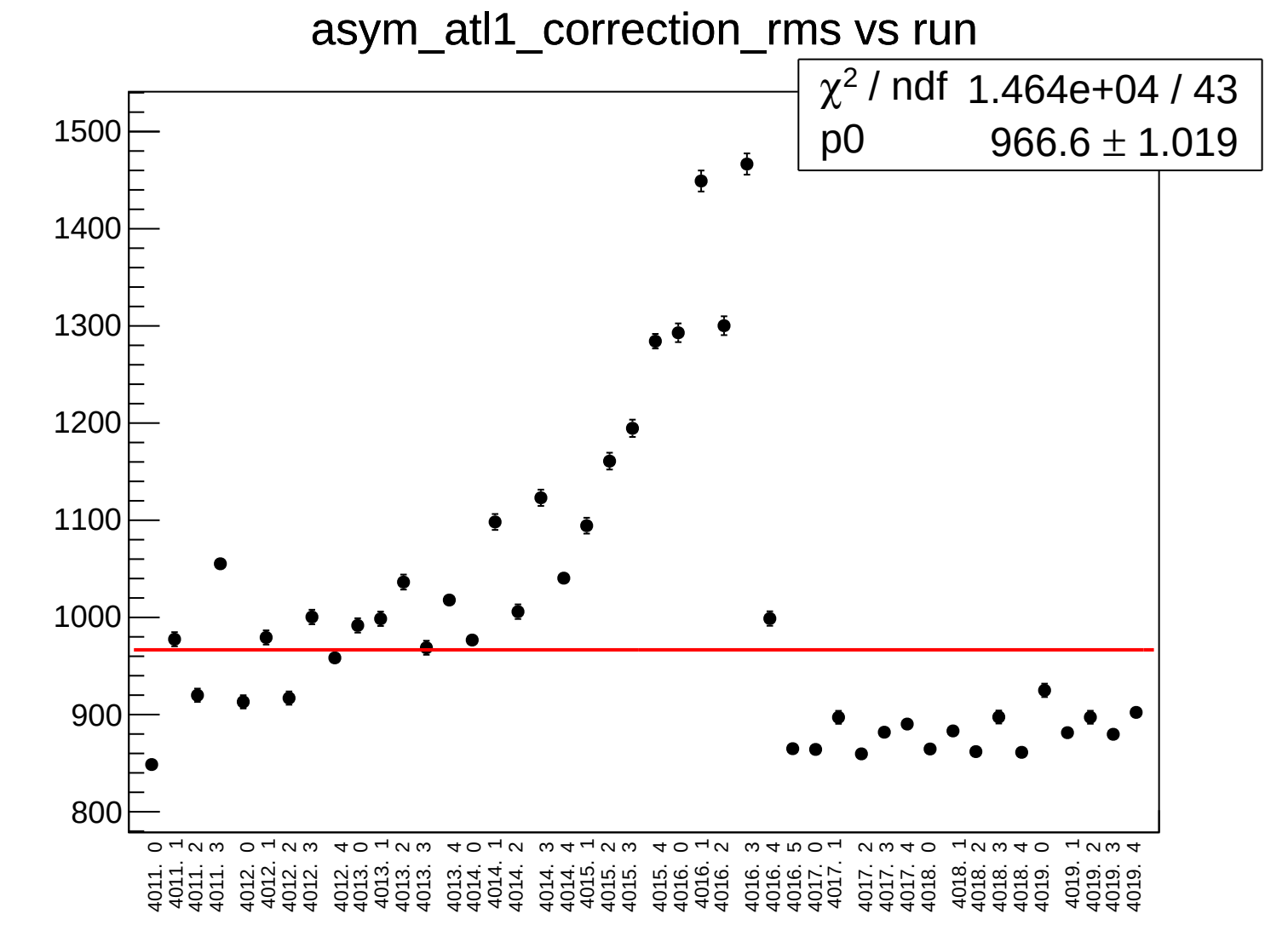

cor_dsr_rms vs run
χ² / ndf 349.9 / 43
p0 438.7 ± 0.459
460
455
450
445
440
435
430
425
420
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

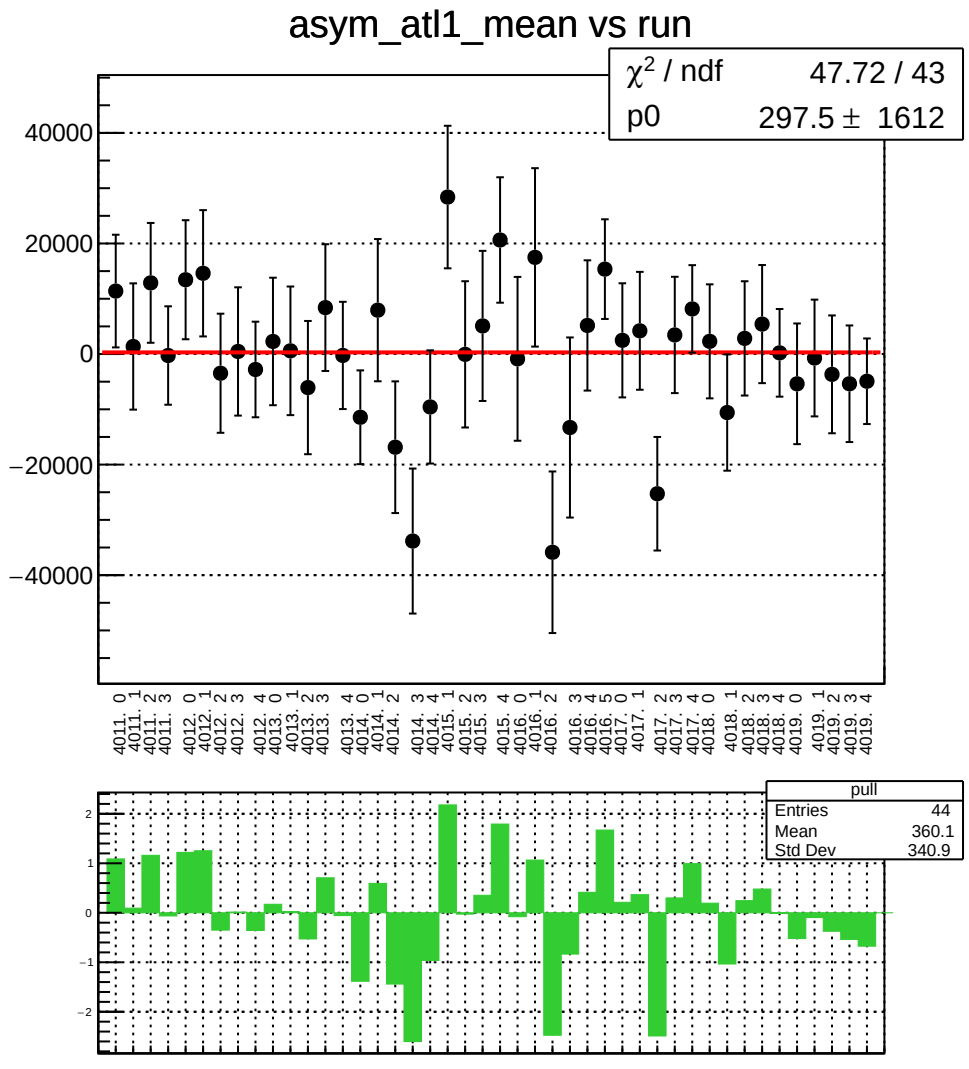

reg_asym_atl1_mean vs run
χ² / ndf 43.41 / 43
p0 413.5 ± 709.9
15000
10000
5000
0
−5000
−10000
−15000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 162.2
Std Dev 141.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean −0.02859
Std Dev 0.9928
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

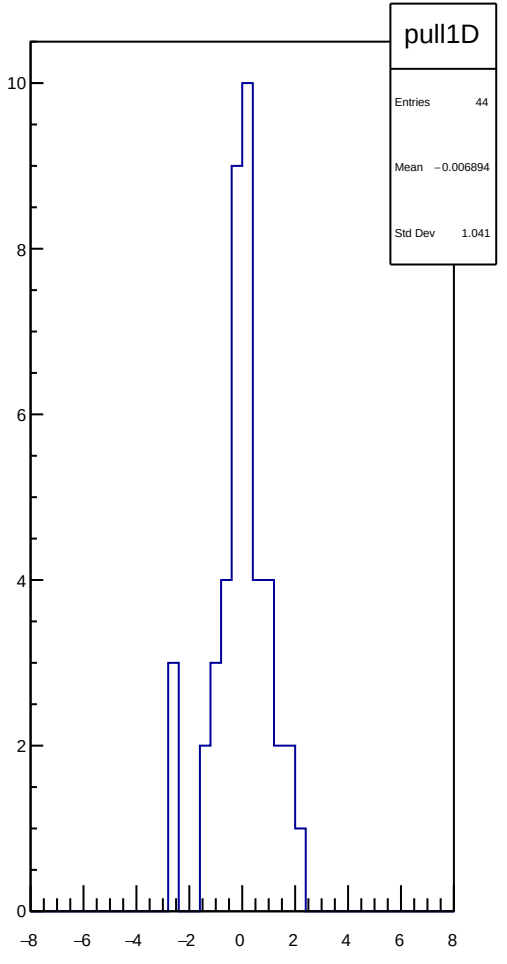

reg_asym_atl1_rms vs run
χ² / ndf 2283 / 43
p0 479.3 ± 0.502
560
540
520
500
480
460
440
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

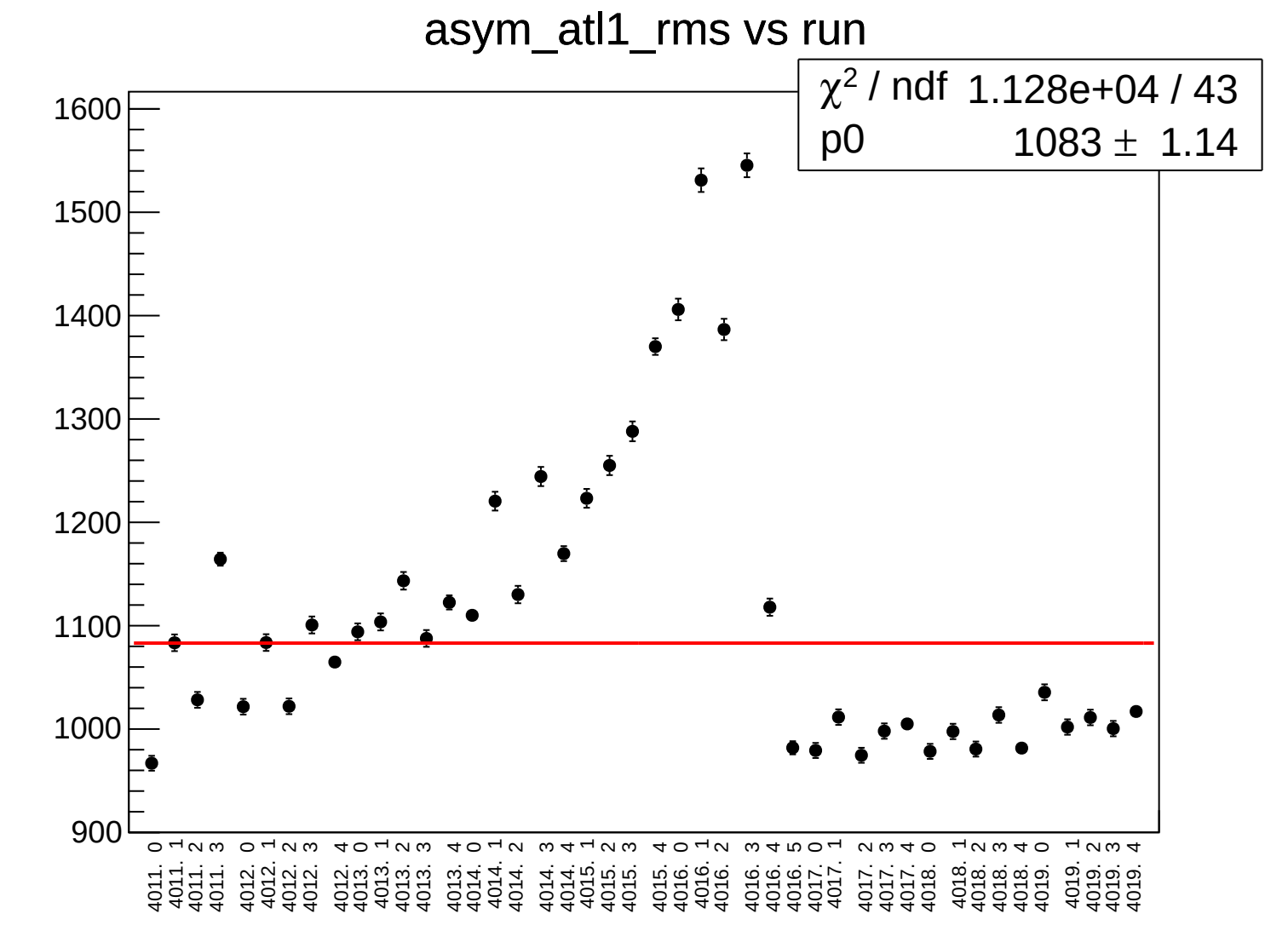

asym_atl1_correction_mean vs run
χ² / ndf 57.07 / 43
p0 148.5 ± 1442
40000
20000
0
−20000
−40000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −80.62
Std Dev 95.22
3
2
1
0
−1
−2

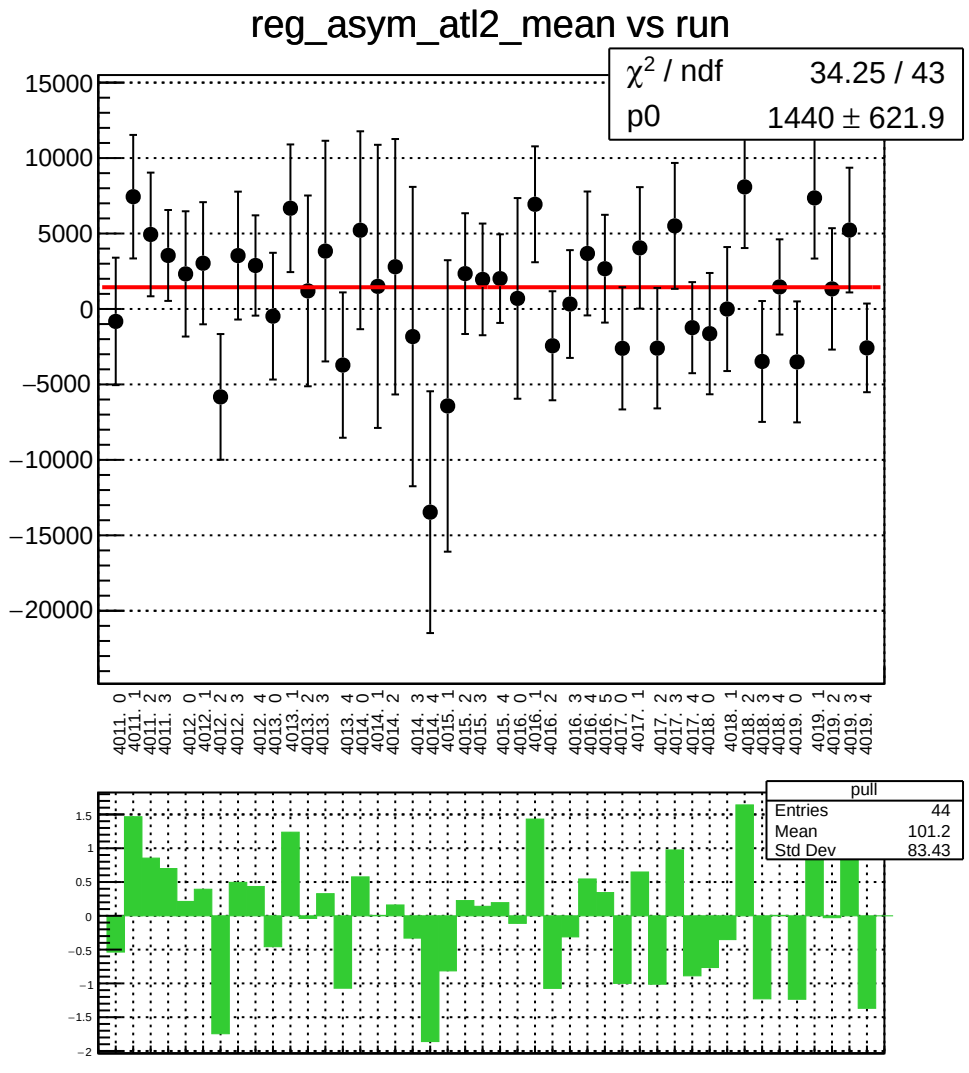

pull1D
Entries 44
Mean −0.006065
Std Dev 1.139
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

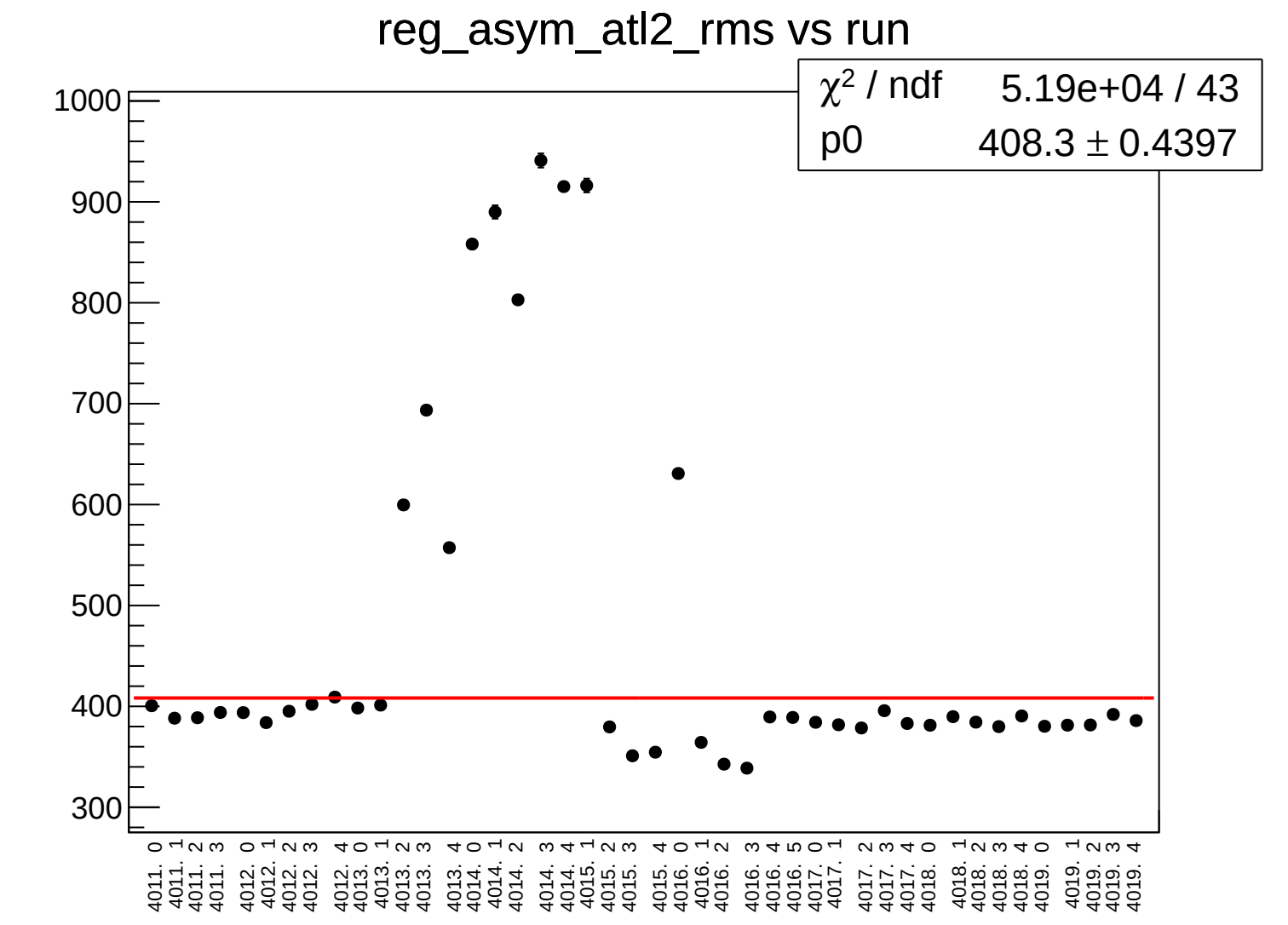

asym_atl1_correction_rms vs run
χ² / ndf 1.464e+04 / 43
p0 966.6 ± 1.019
1500
1400
1300
1200
1100
1000
900
800
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

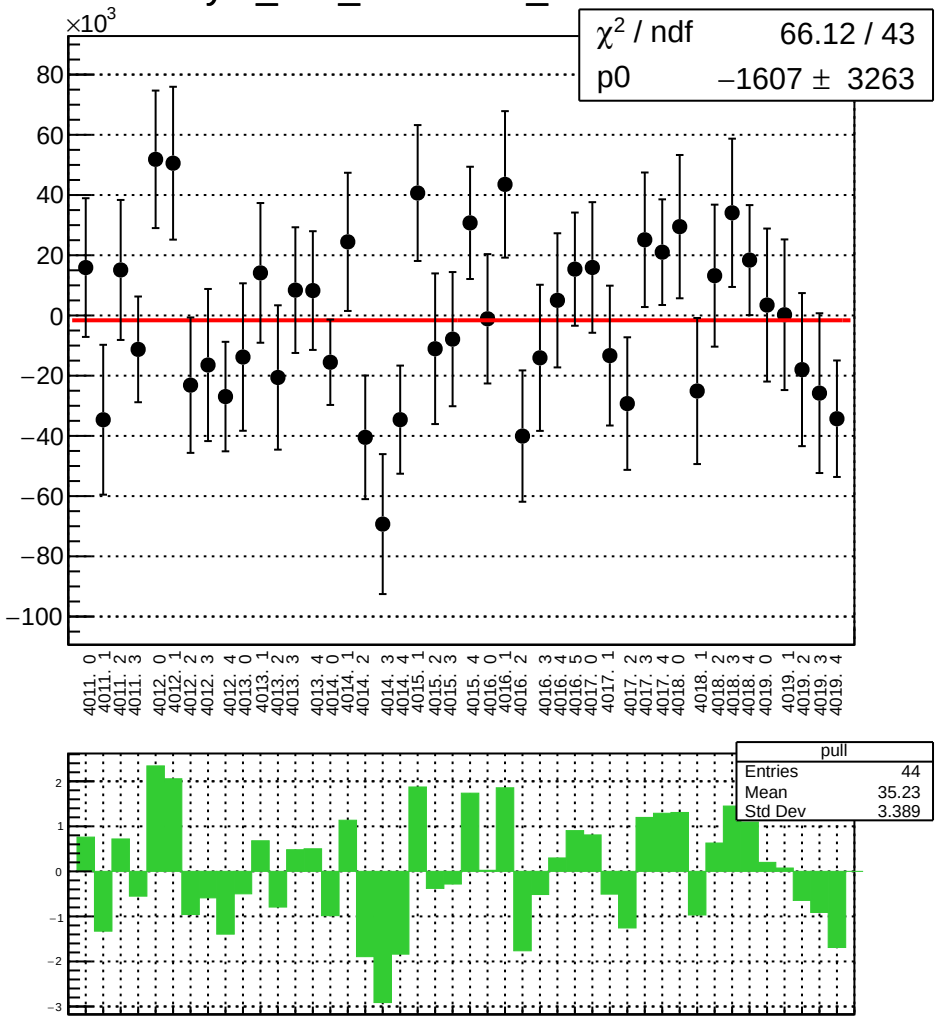

asym_atl1_mean vs run
χ² / ndf 47.72 / 43
p0 297.5 ± 1612
40000
20000
0
−20000
−40000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 360.1
Std Dev 340.9
2
1
0
−1
−2

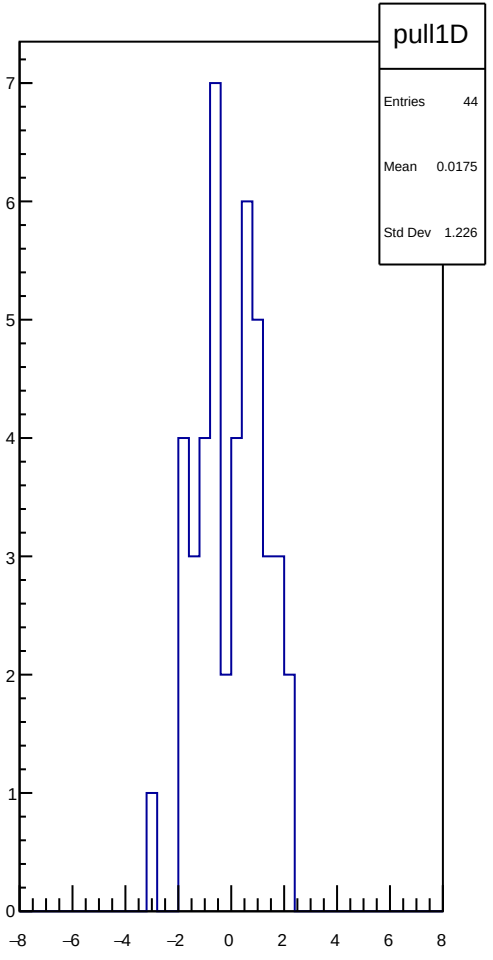

pull1D
Entries 44
Mean −0.006894
Std Dev 1.041
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

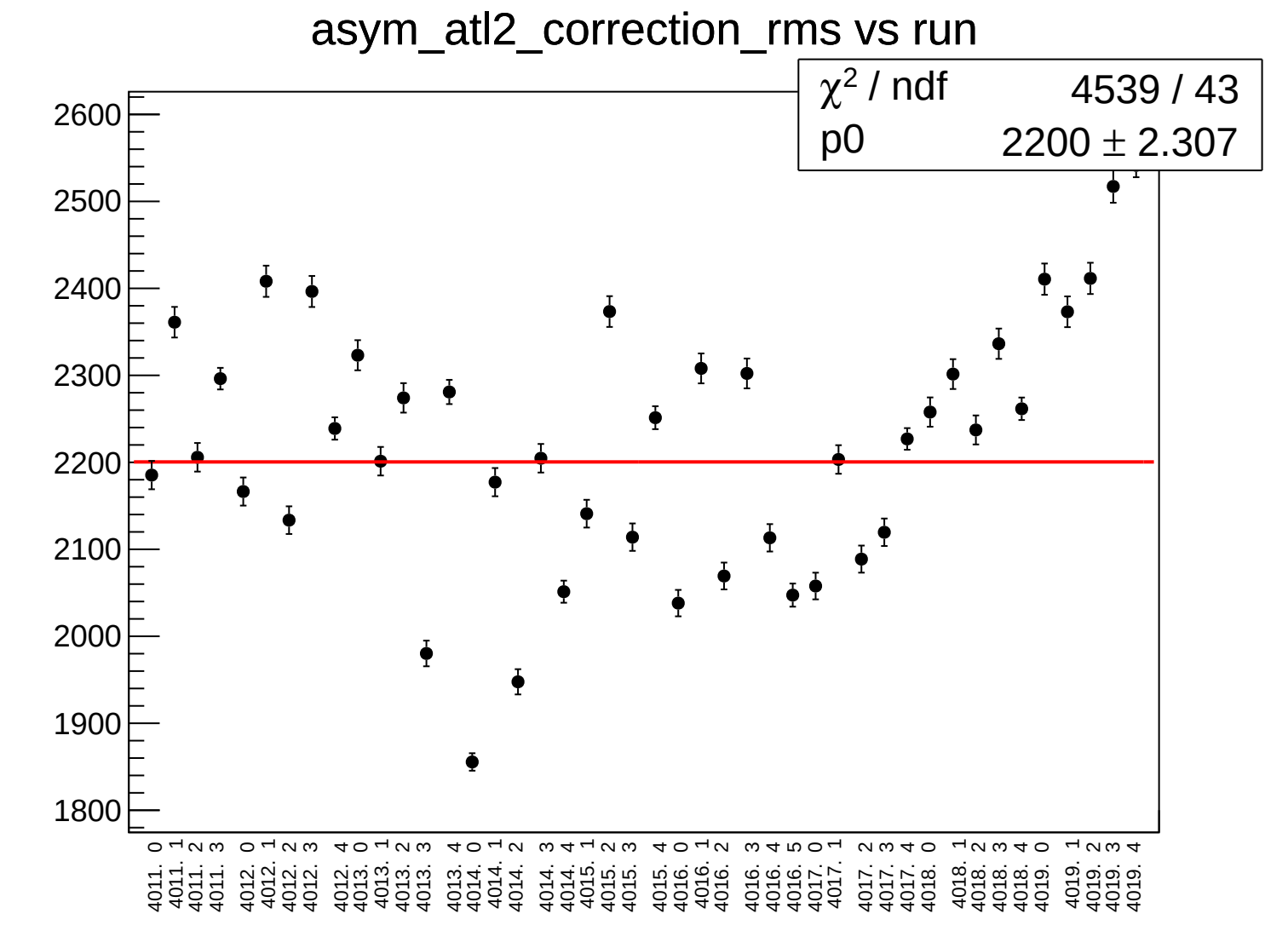

asym_atl1_rms vs run
χ² / ndf 1.128e+04 / 43
p0 1083 ± 1.14
1600
1500
1400
1300
1200
1100
1000
900
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

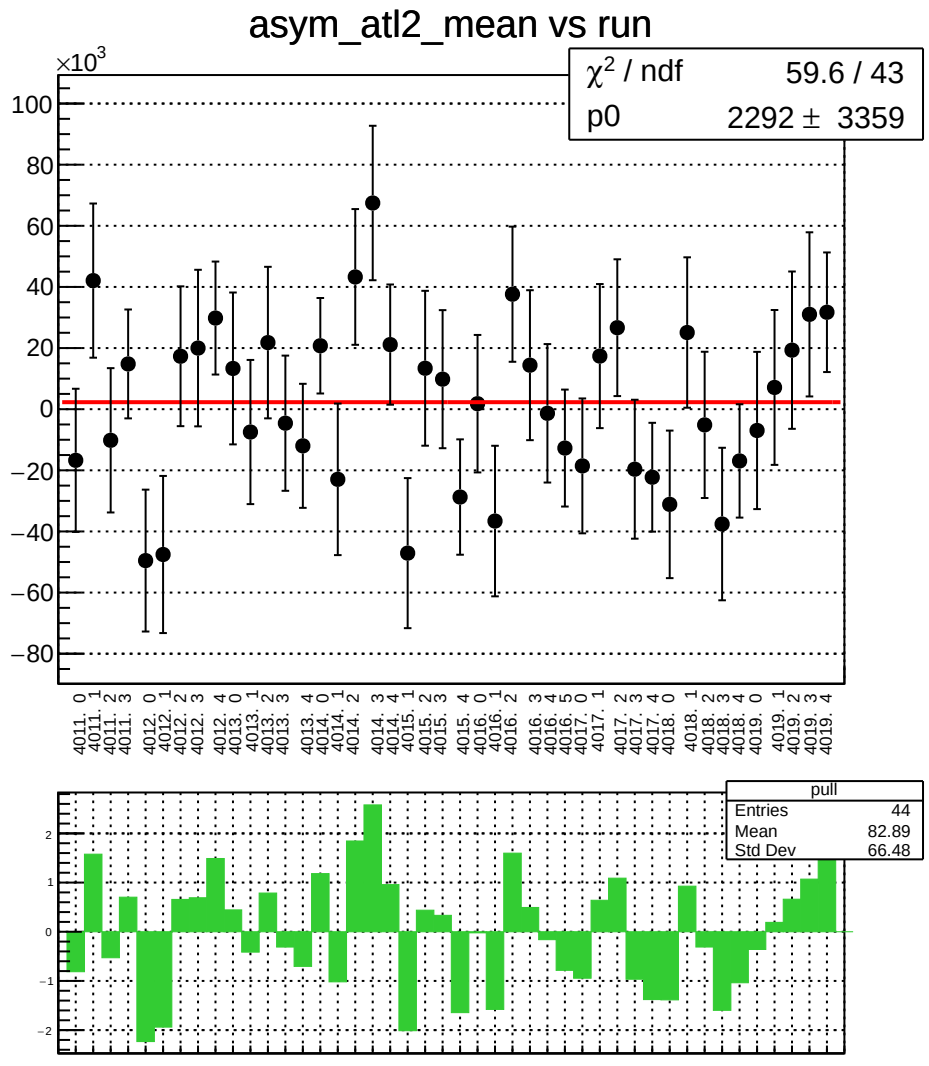

reg_asym_atl2_mean vs run
χ² / ndf 34.25 / 43
p0 1440 ± 621.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 101.2
Std Dev 83.43
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean −0.01864
Std Dev 0.882
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

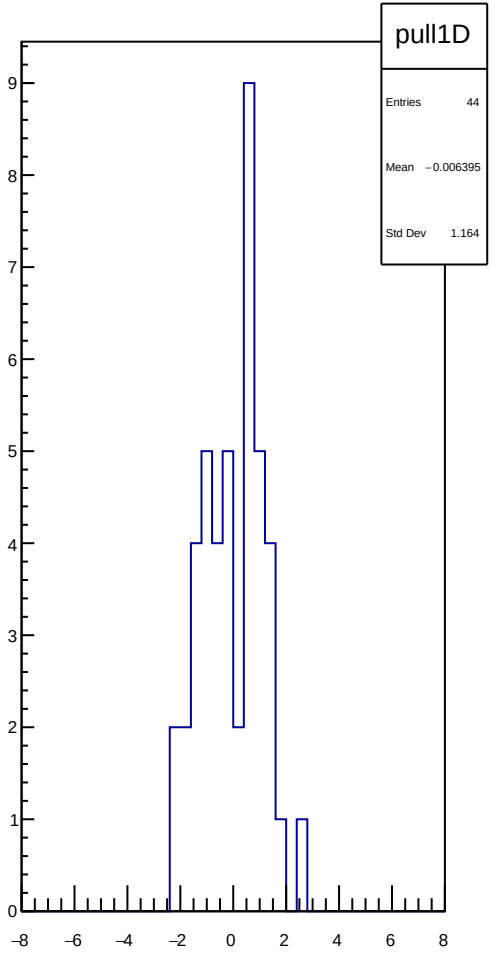

reg_asym_atl2_rms vs run
χ² / ndf 5.19e+04 / 43
p0 408.3 ± 0.4397
1000
900
800
700
600
500
400
300
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

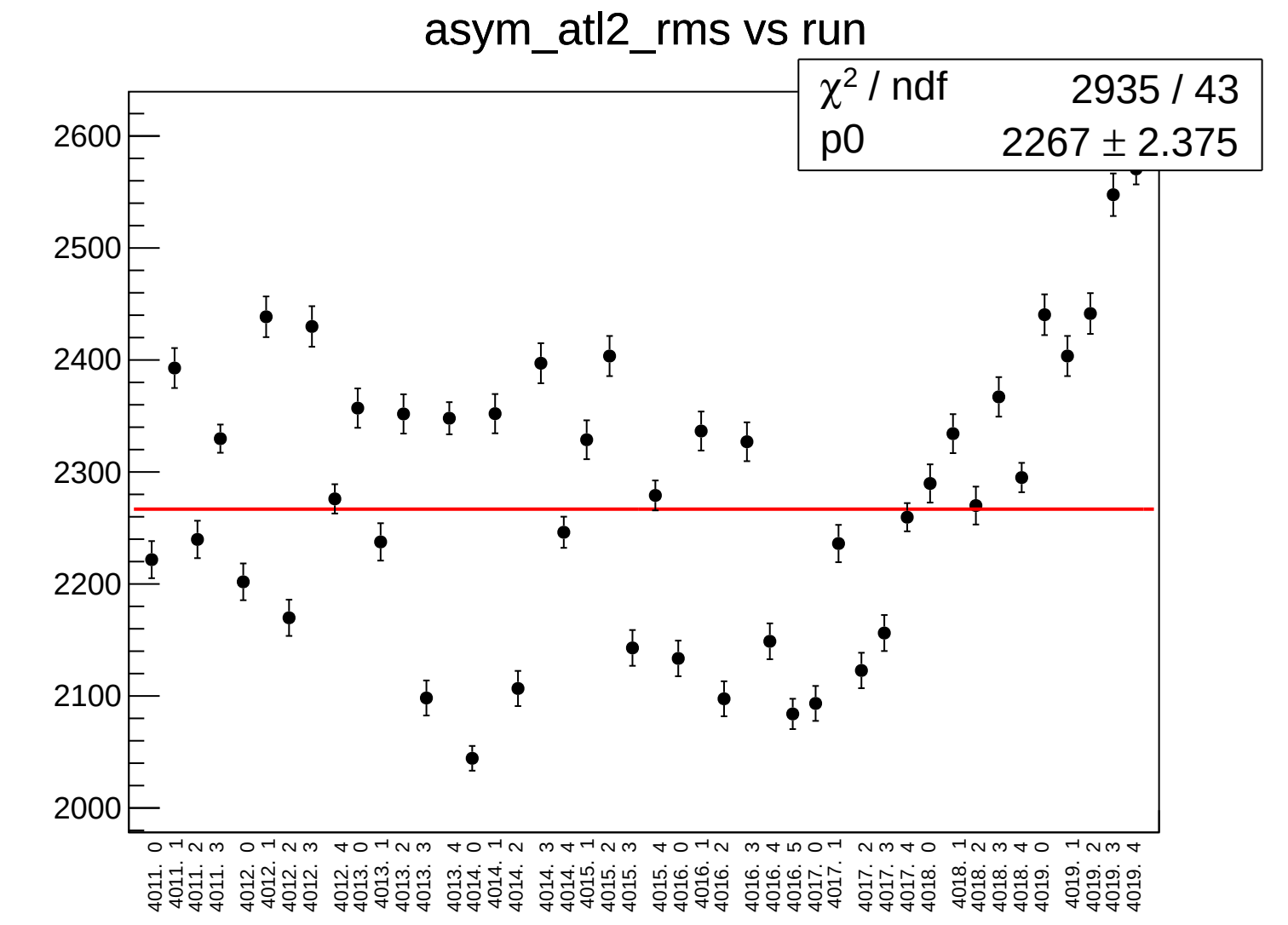

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 66.12 / 43
p0 −1607 ± 3263
pull
Entries 44
Mean 35.23
Std Dev 3.389

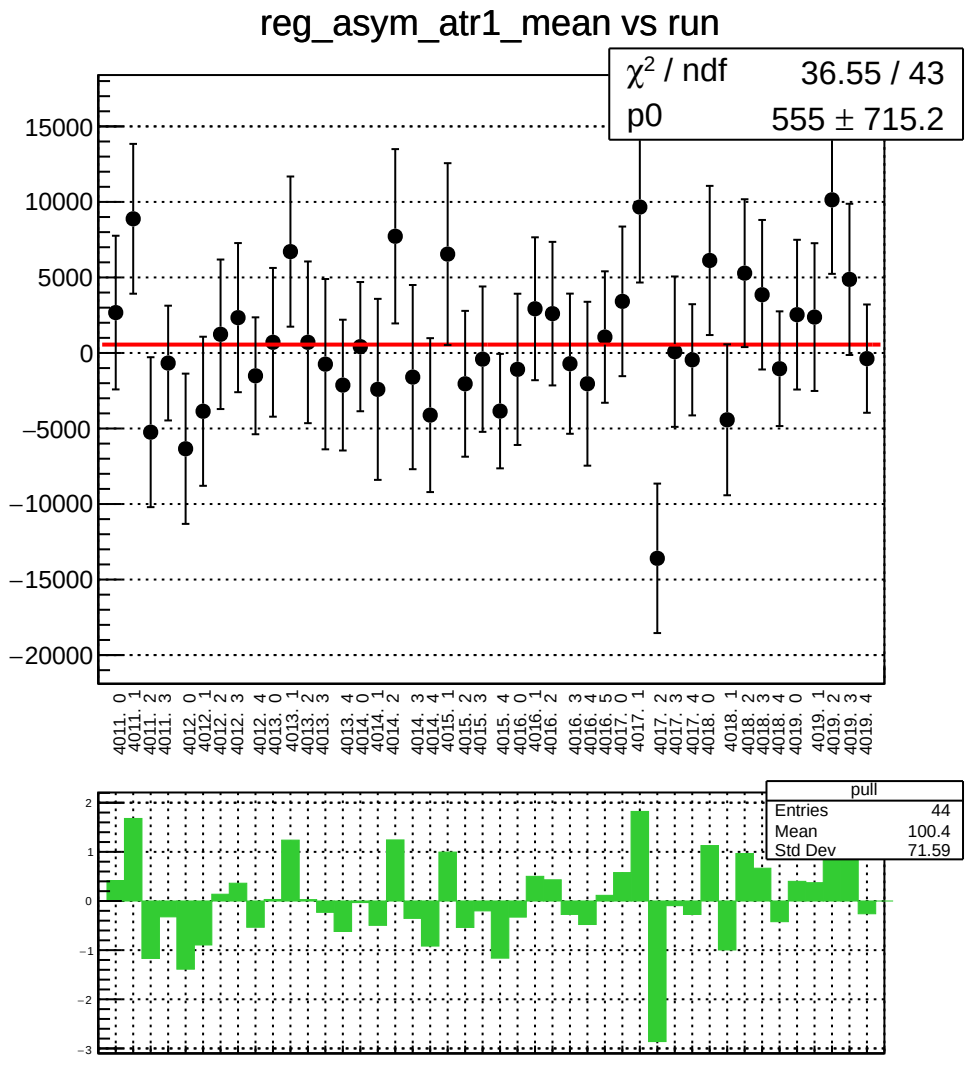

pull1D
Entries 44
Mean 0.0175
Std Dev 1.226

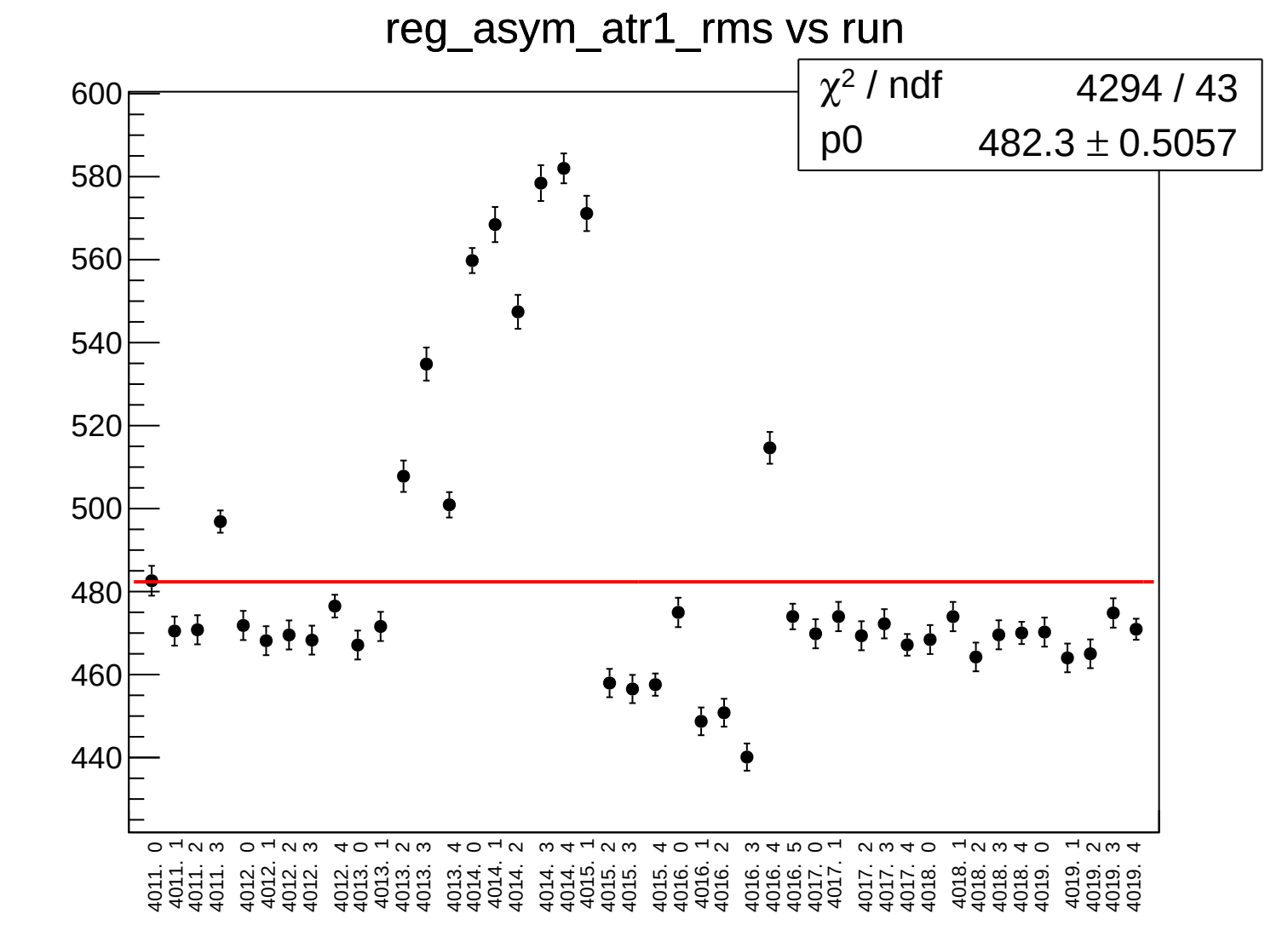

asym_atl2_correction_rms vs run
χ² / ndf 4539 / 43
p0 2200 ± 2.307
2600
2500
2400
2300
2200
2100
2000
1900
1800
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

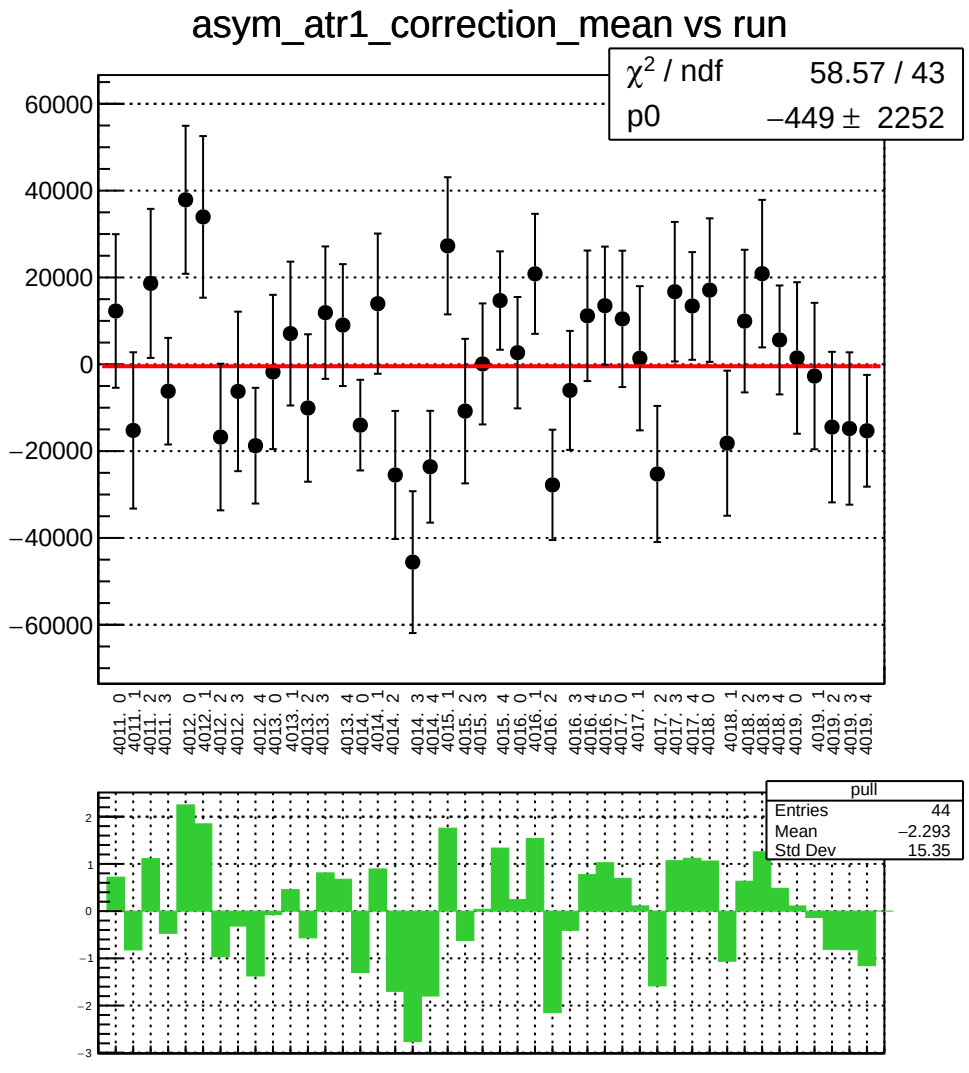

asym_atl2_mean vs run
×10^3
χ² / ndf 59.6 / 43
p0 2292 ± 3359
100
80
60
40
20
0
−20
−40
−60
−80
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 82.89
Std Dev 66.48
2
1
0
−1
−2

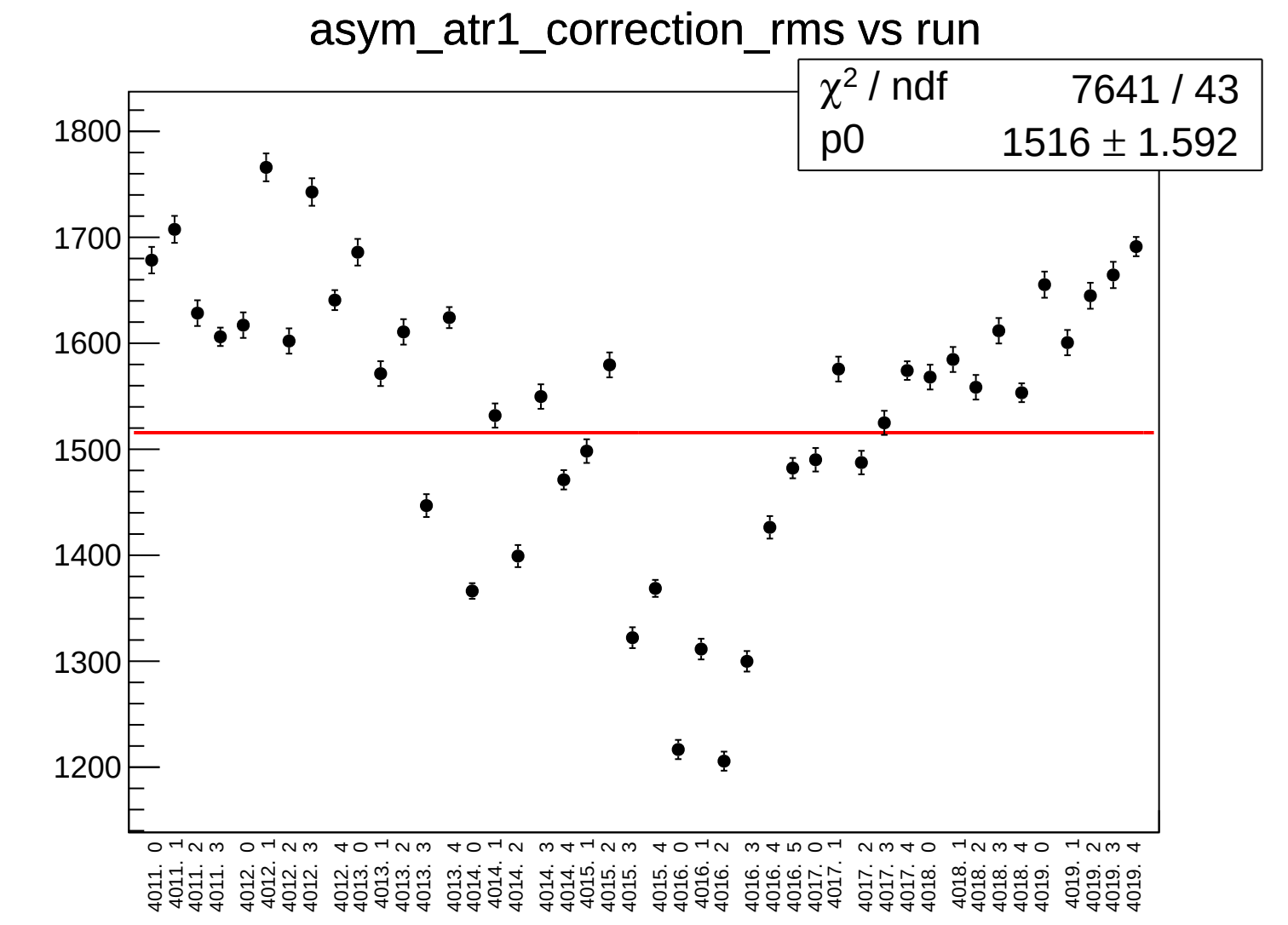

pull1D
Entries 44
Mean −0.006395
Std Dev 1.164
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

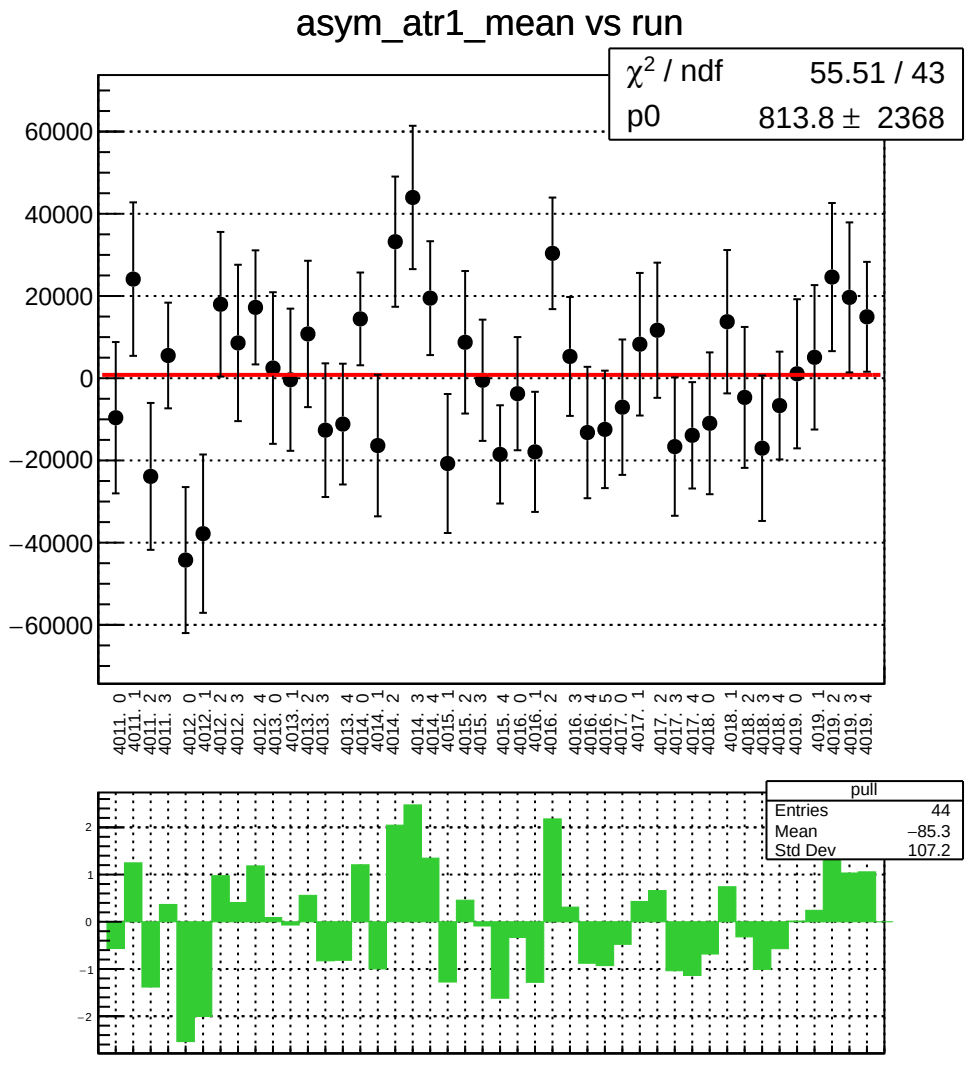

asym_atl2_rms vs run
χ² / ndf 2935 / 43
p0 2267 ± 2.375
2600
2500
2400
2300
2200
2100
2000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

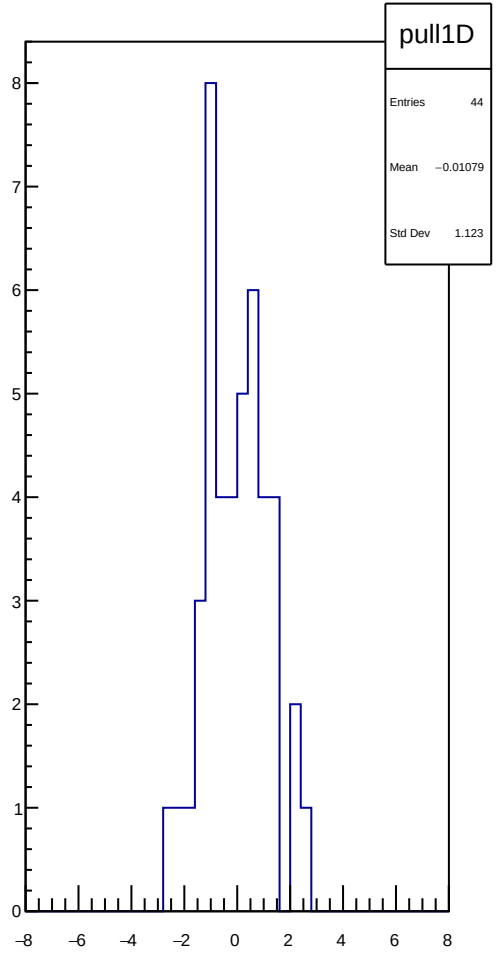

reg_asym_atr1_mean vs run
χ² / ndf 36.55 / 43
p0 555 ± 715.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 100.4
Std Dev 71.59
2
1
0
−1
−2
−3
pull1D
Entries 44
Mean 0.02487
Std Dev 0.9111
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

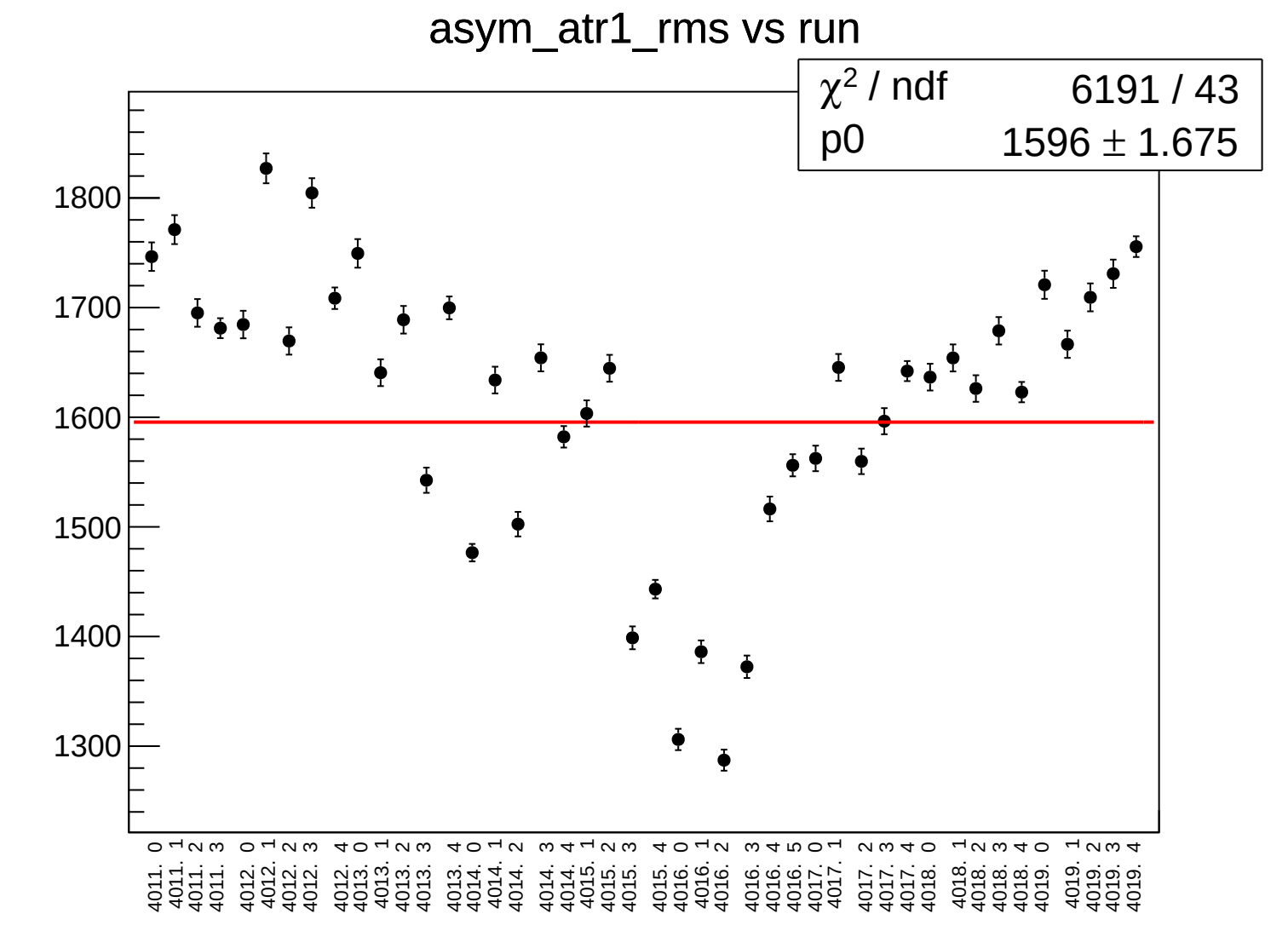

reg_asym_atr1_rms vs run
χ² / ndf 4294 / 43
p0 482.3 ± 0.5057
600
580
560
540
520
500
480
460
440
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

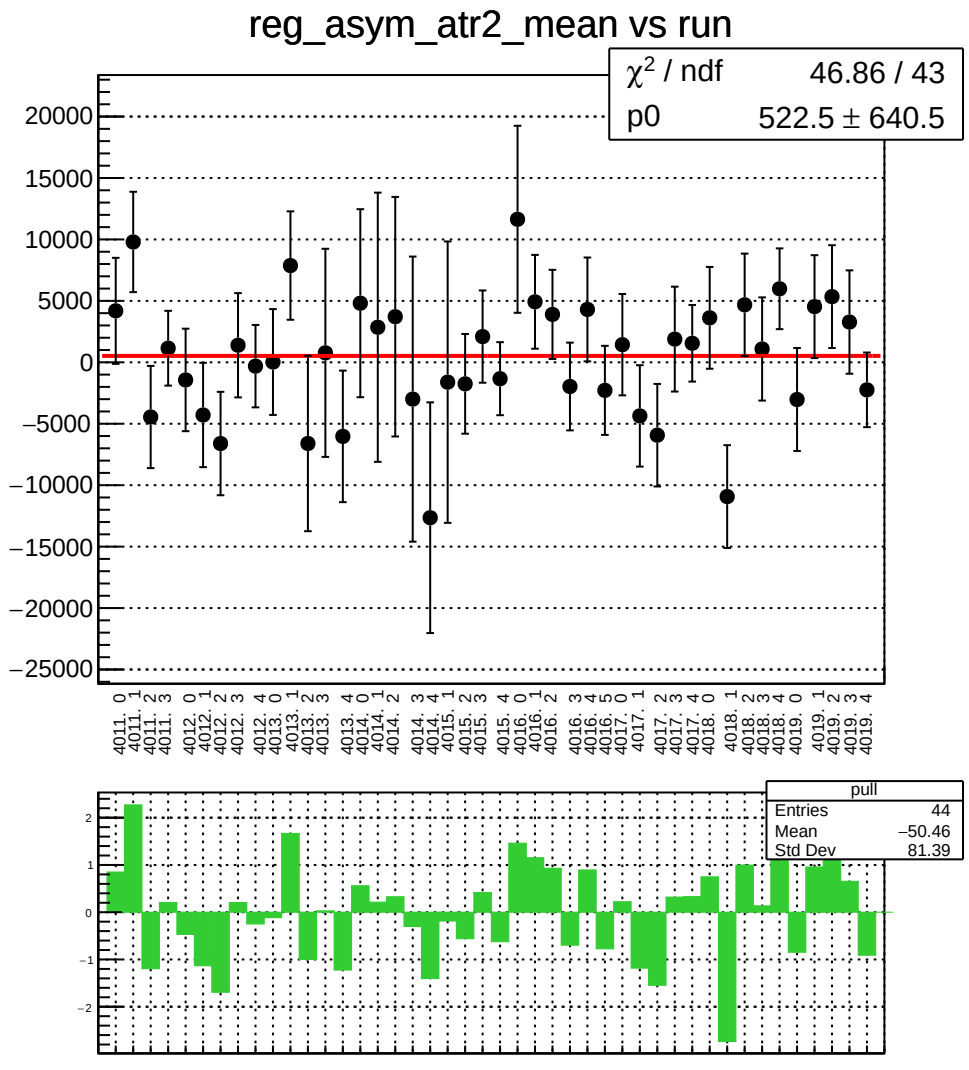

asym_atr1_correction_mean vs run
χ² / ndf 58.57 / 43
p0 −449 ± 2252
60000
40000
20000
0
−20000
−40000
−60000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −2.293
Std Dev 15.35
2
1
0
−1
−2
−3
pull1D
Entries 44
Mean 0.02566
Std Dev 1.153
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

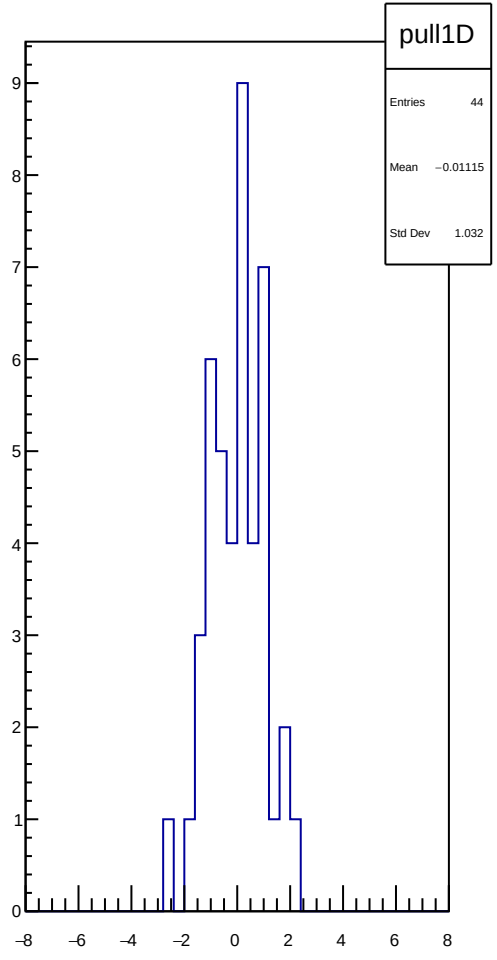

asym_atr1_correction_rms vs run
χ² / ndf 7641 / 43
p0 1516 ± 1.592
1800
1700
1600
1500
1400
1300
1200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

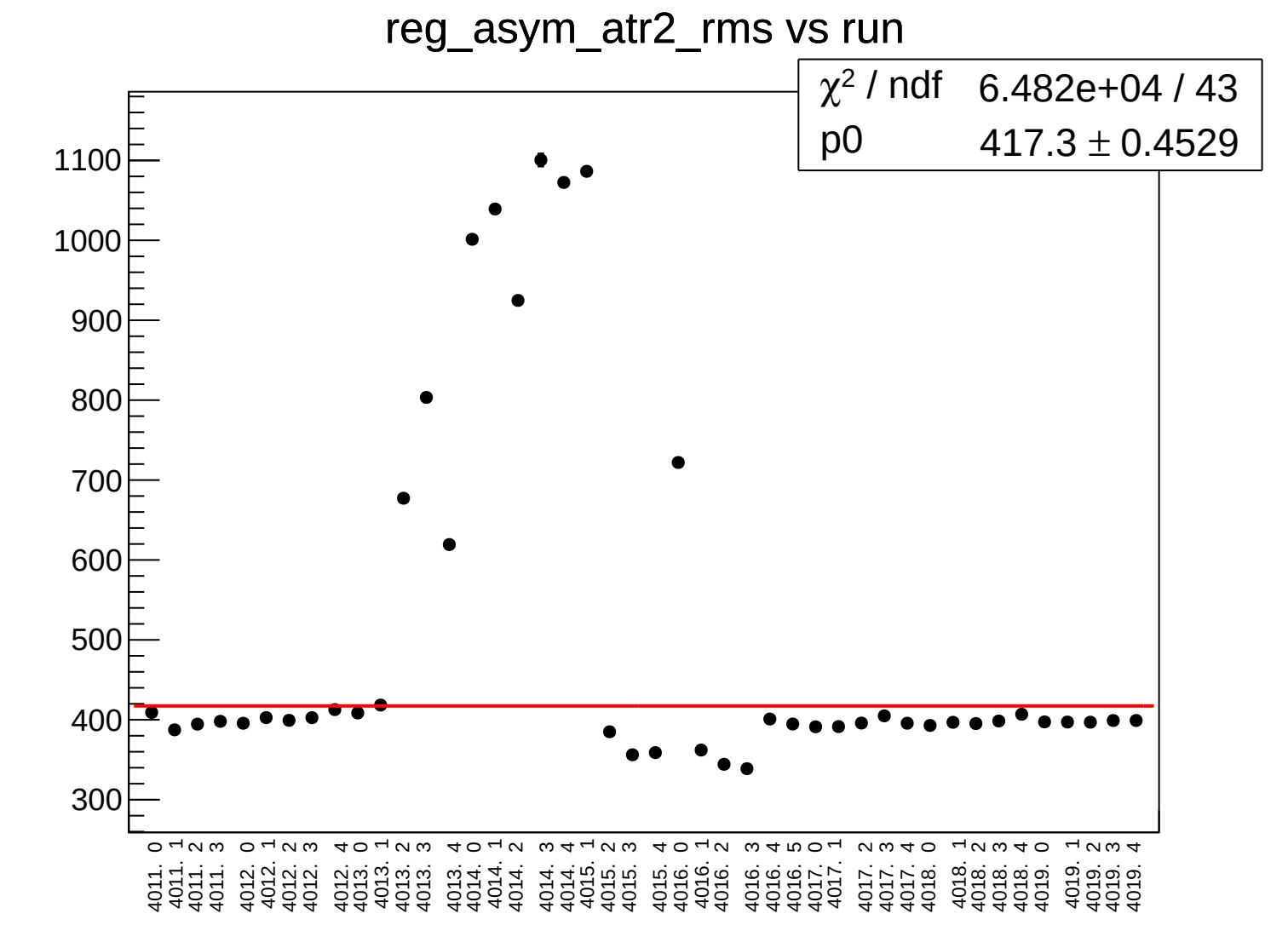

asym_atr1_mean vs run
χ² / ndf 55.51 / 43
p0 813.8 ± 2368
60000
40000
20000
0
−20000
−40000
−60000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −85.3
Std Dev 107.2
2
1
0
−1
−2

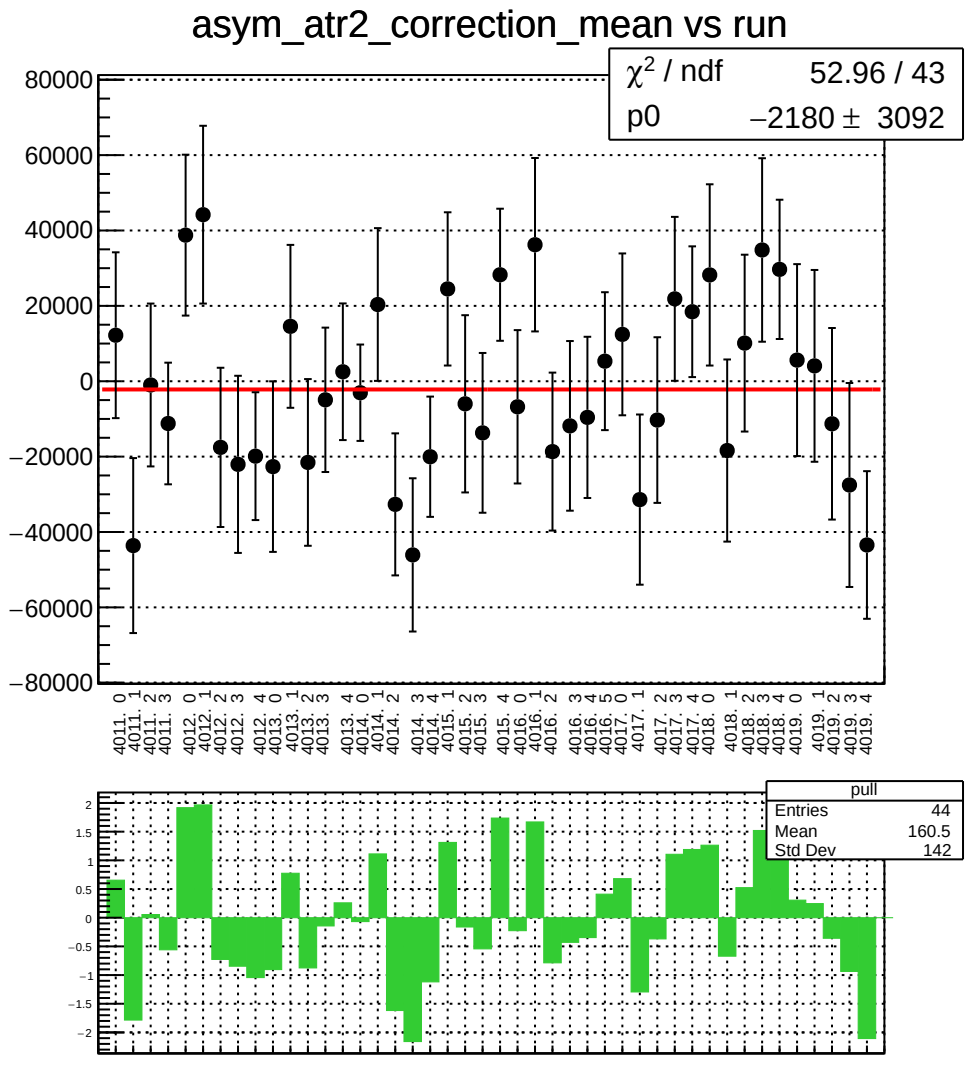

pull1D
Entries 44
Mean −0.01079
Std Dev 1.123
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

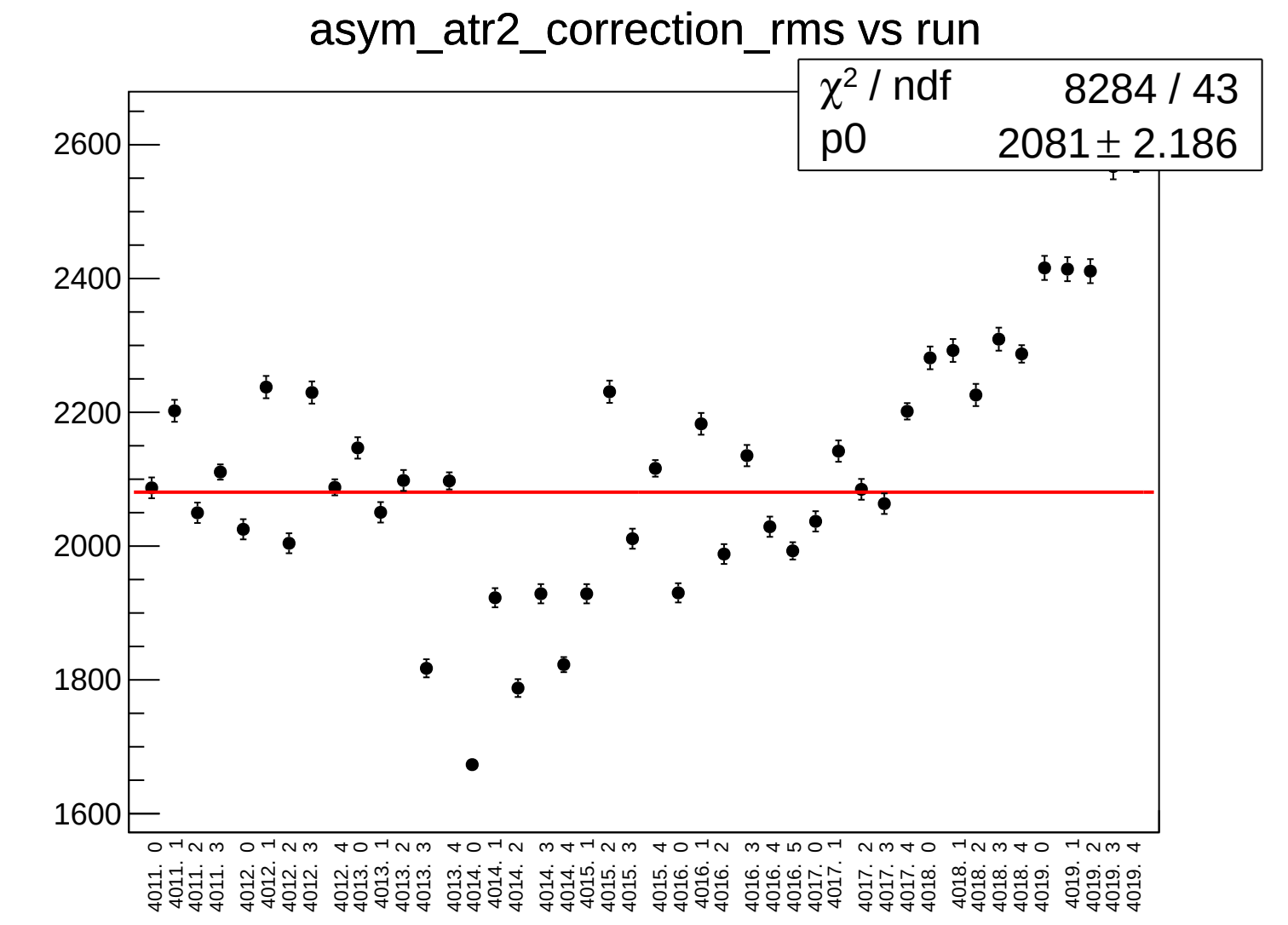

asym_atr1_rms vs run
χ² / ndf 6191 / 43
p0 1596 ± 1.675
1800
1700
1600
1500
1400
1300
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

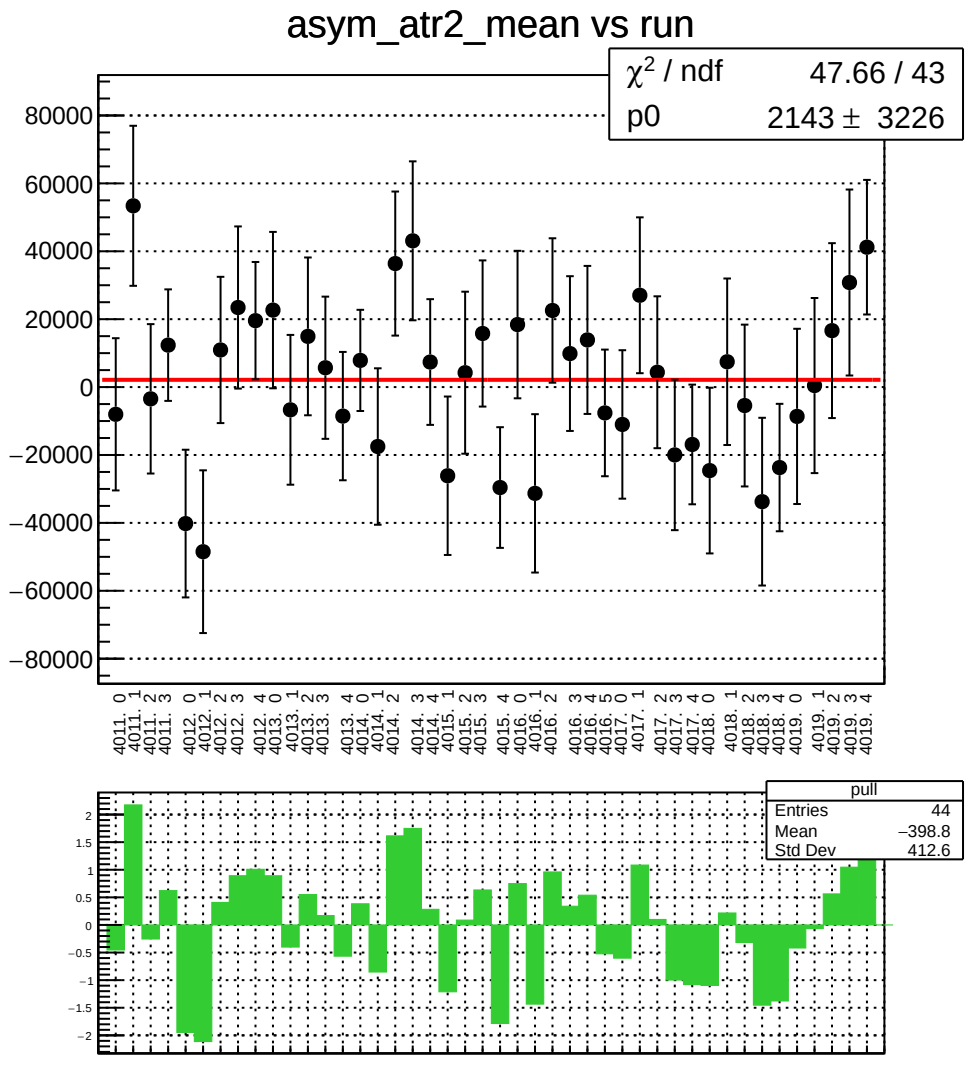

reg_asym_atr2_mean vs run
χ² / ndf 46.86 / 43
p0 522.5 ± 640.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −50.46
Std Dev 81.39
2
1
0
−1
−2

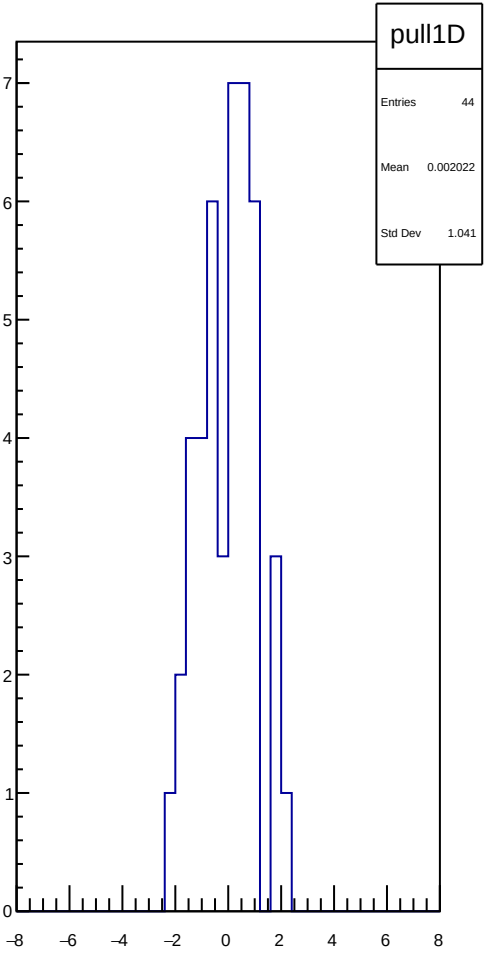

pull1D
Entries 44
Mean −0.01115
Std Dev 1.032
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

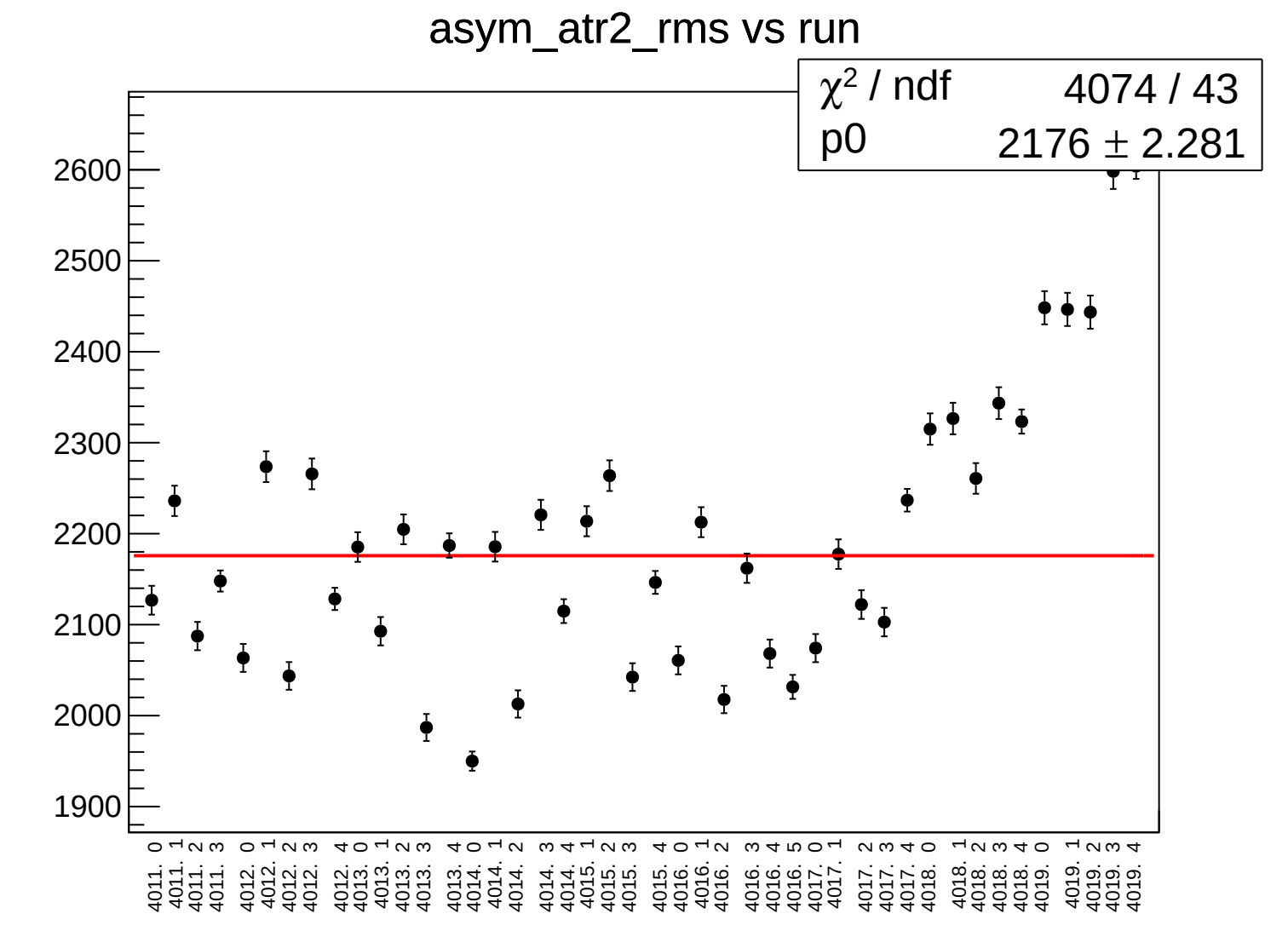

reg_asym_atr2_rms vs run
χ² / ndf 6.482e+04 / 43
p0 417.3 ± 0.4529
1100
1000
900
800
700
600
500
400
300
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

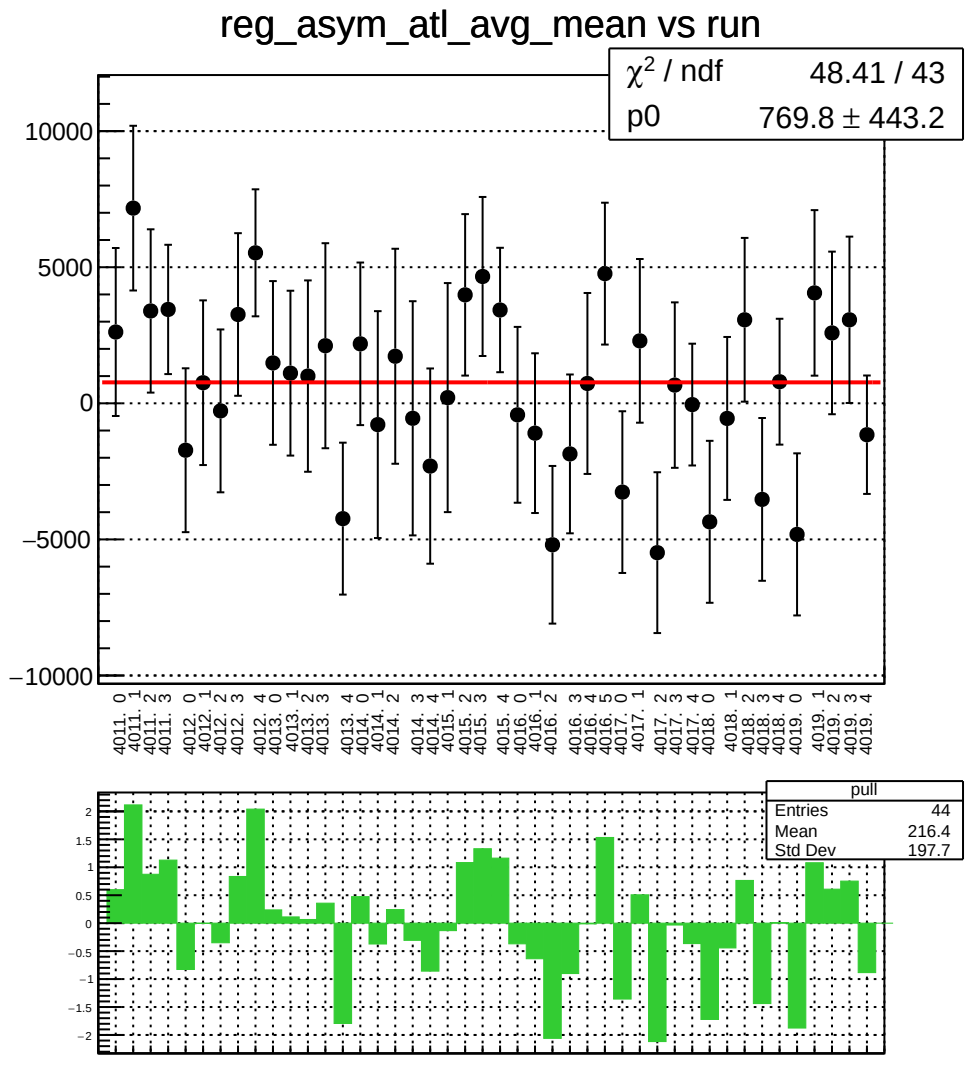

asym_atr2_correction_mean vs run
χ² / ndf 52.96 / 43
p0 −2180 ± 3092
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 160.5
Std Dev 142
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean 0.007982
Std Dev 1.097
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

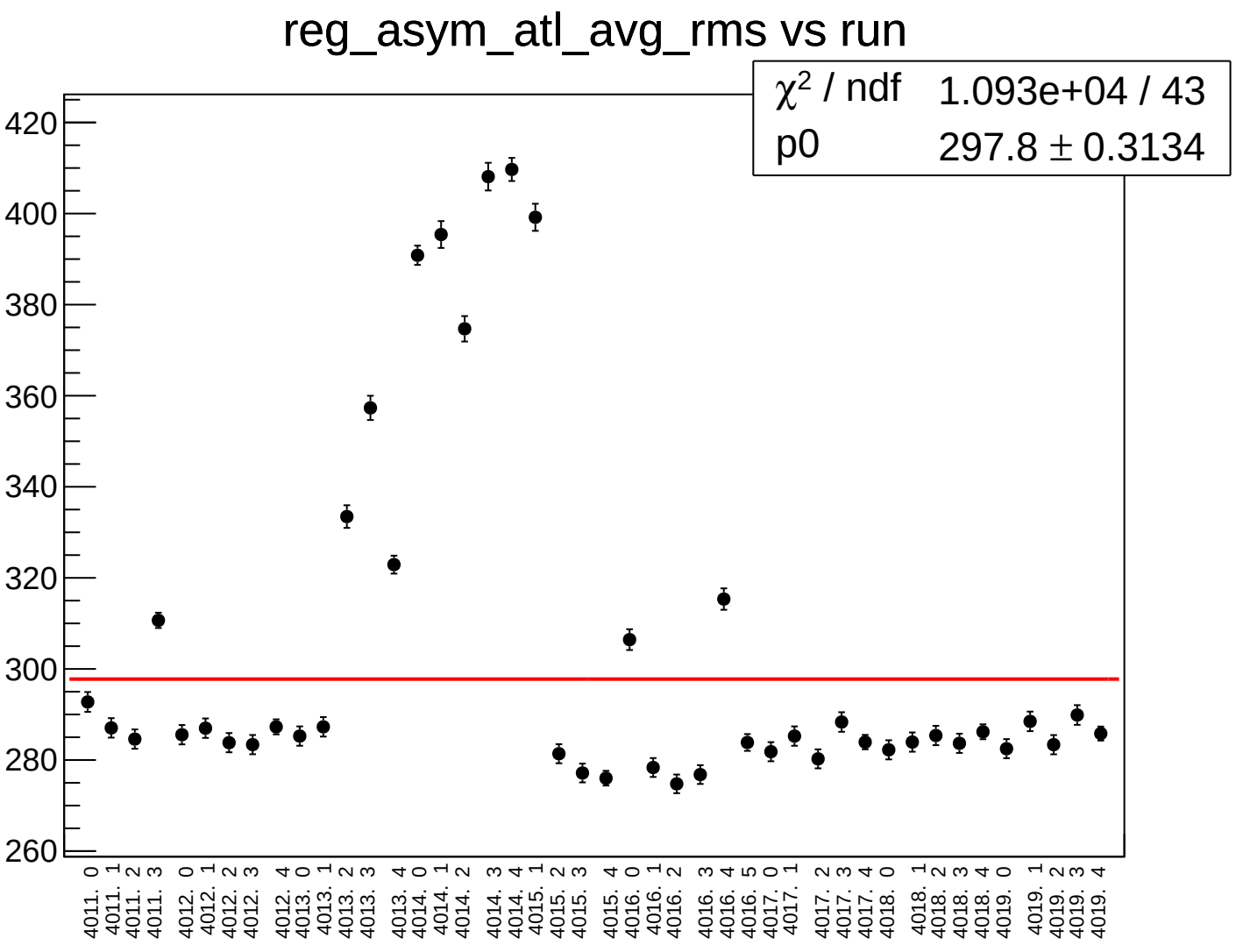

asym_atr2_correction_rms vs run
χ² / ndf 8284 / 43
p0 2081 ± 2.186
2600
2400
2200
2000
1800
1600
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

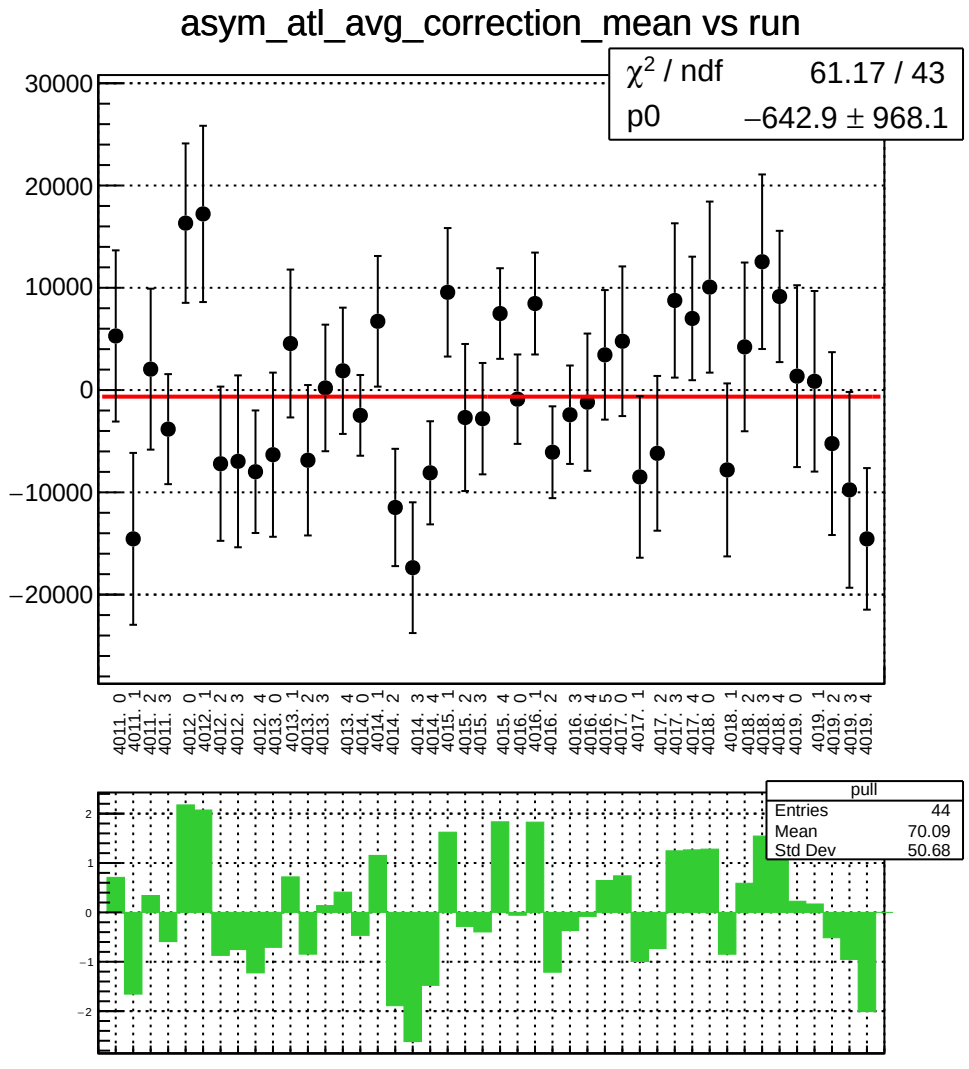

asym_atr2_mean vs run
χ² / ndf 47.66 / 43
p0 2143 ± 3226
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −398.8
Std Dev 412.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

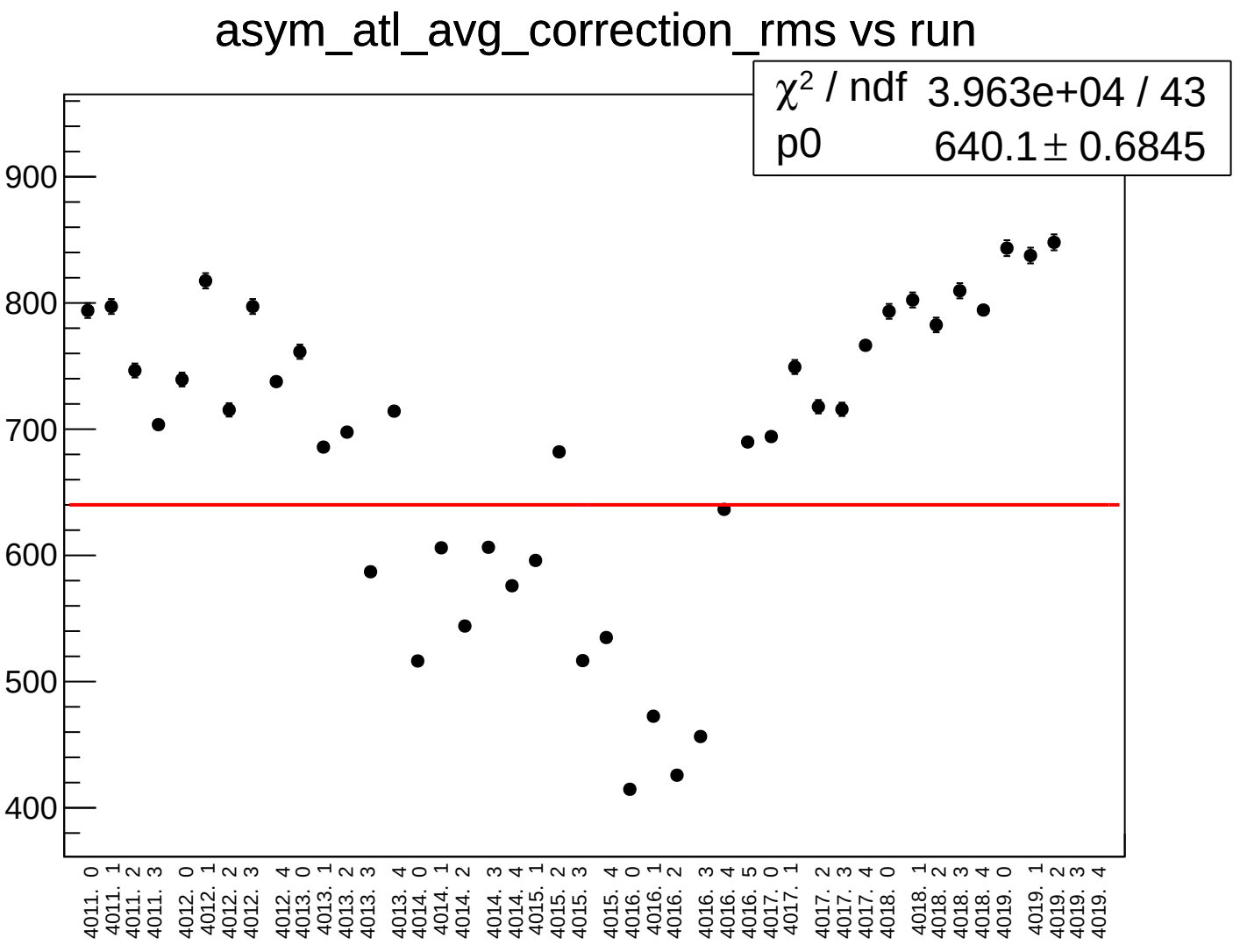

pull1D
Entries 44
Mean 0.002022
Std Dev 1.041
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

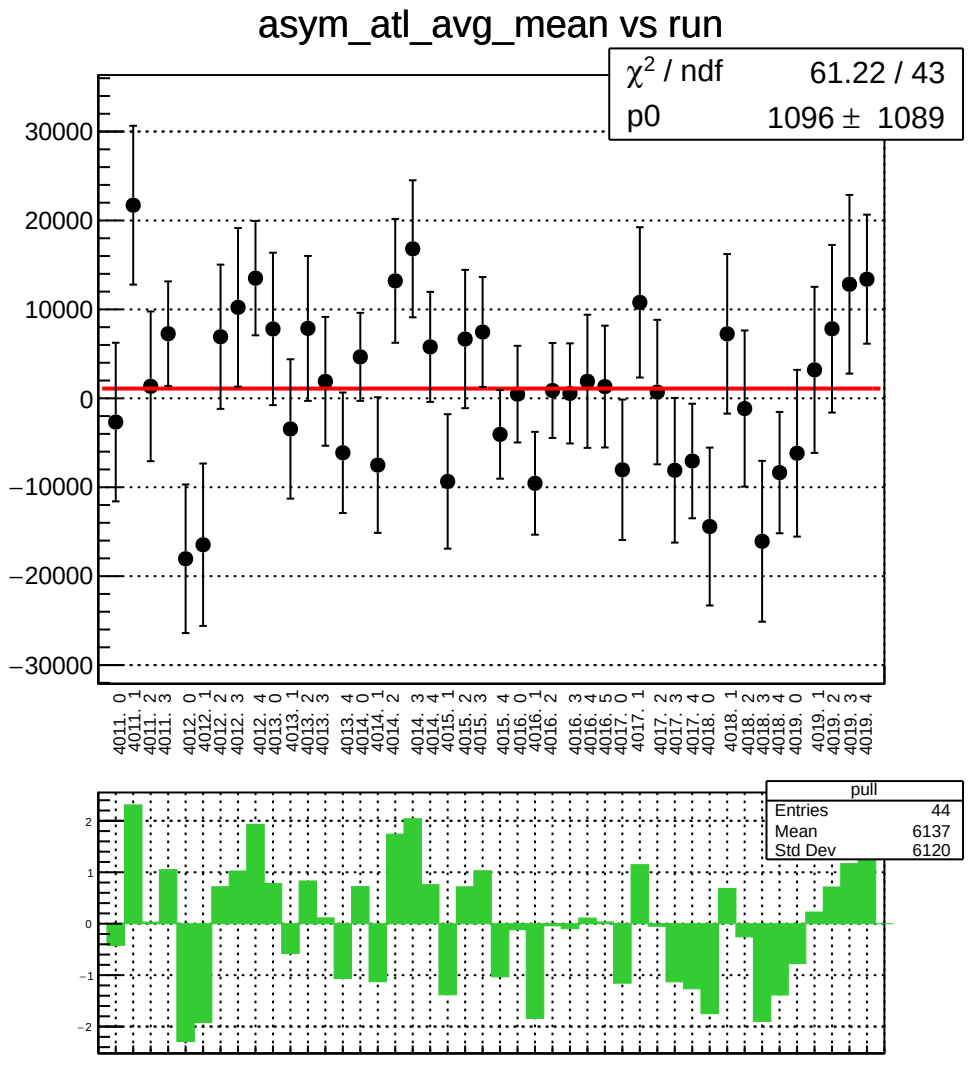

asym_atr2_rms vs run
χ² / ndf 4074 / 43
p0 2176 ± 2.281
2600
2500
2400
2300
2200
2100
2000
1900
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

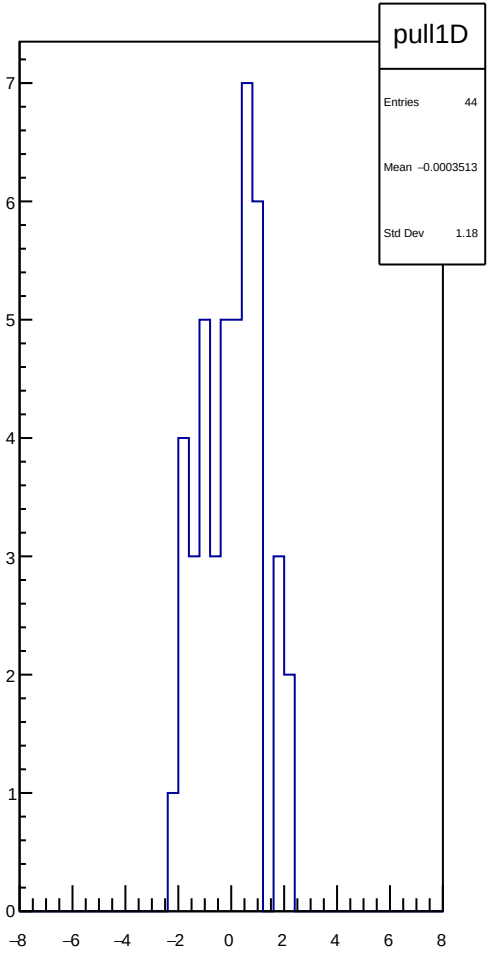

reg_asym_atl_avg_mean vs run
χ² / ndf 48.41 / 43
p0 769.8 ± 443.2
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 216.4
Std Dev 197.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean −0.02145
Std Dev 1.049
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

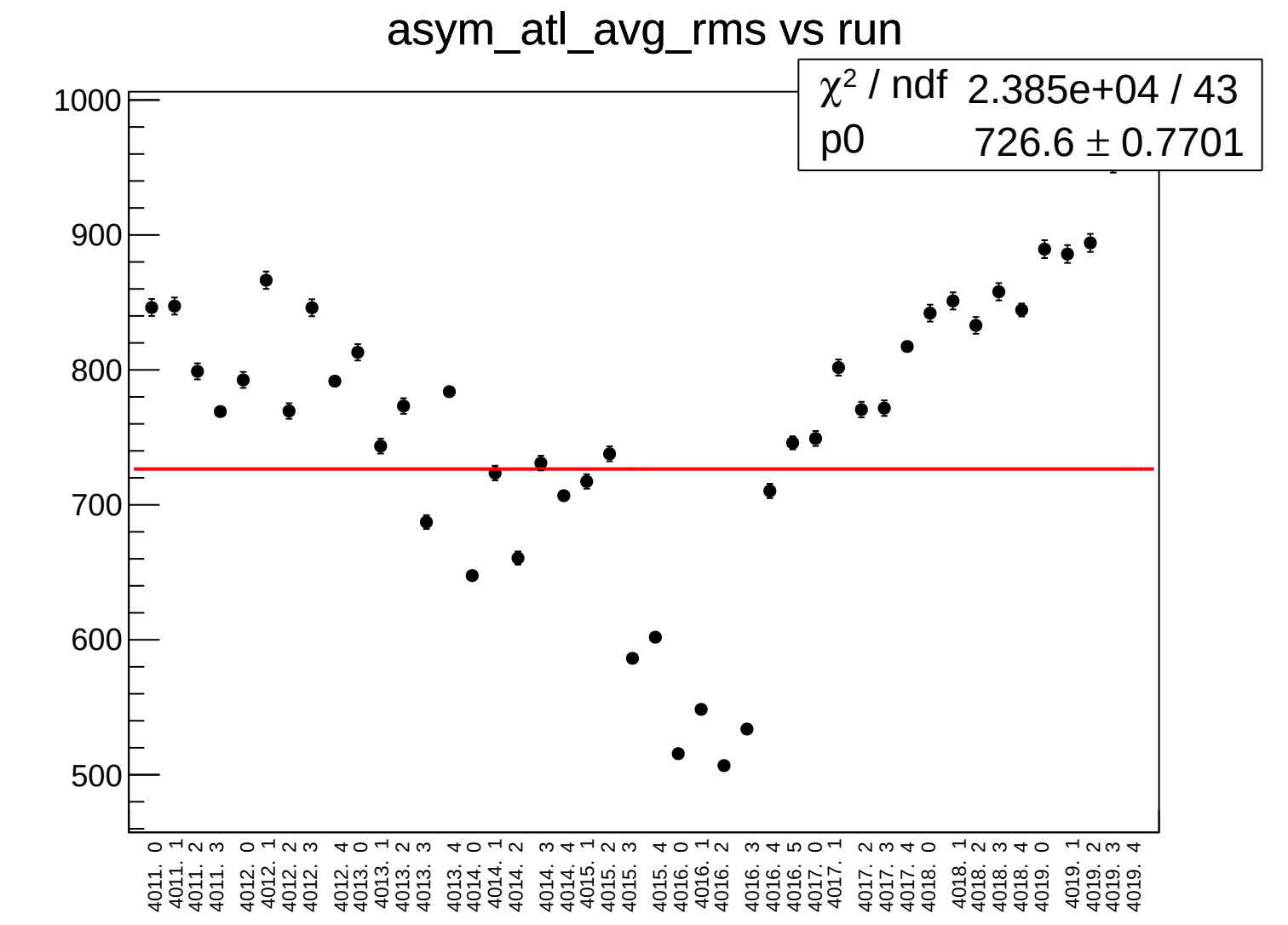

reg_asym_atl_avg_rms vs run
χ² / ndf 1.093e+04 / 43
p0 297.8 ± 0.3134
420
400
380
360
340
320
300
280
260
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

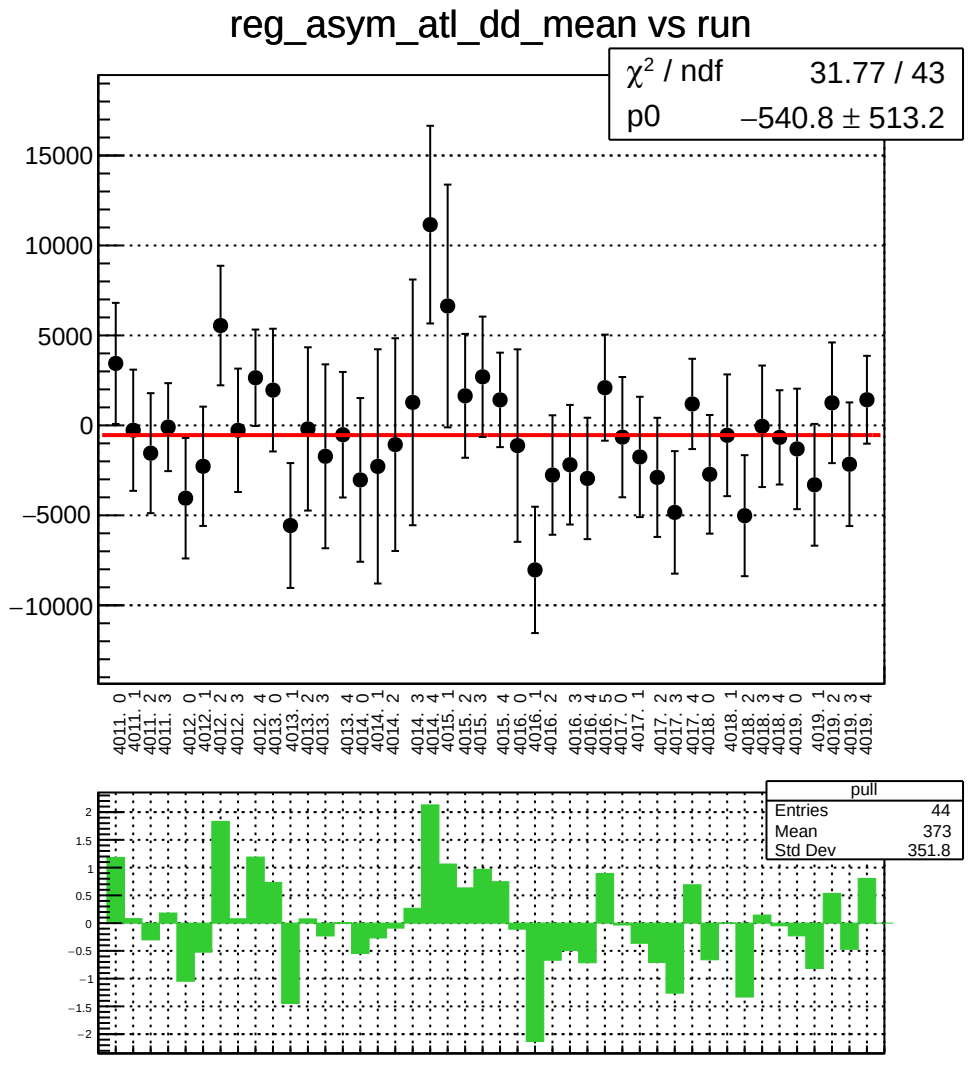

asym_atl_avg_correction_mean vs run
χ² / ndf 61.17 / 43
p0 −642.9 ± 968.1
30000
20000
10000
0
−10000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 70.09
Std Dev 50.68
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.01598
Std Dev 1.179
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

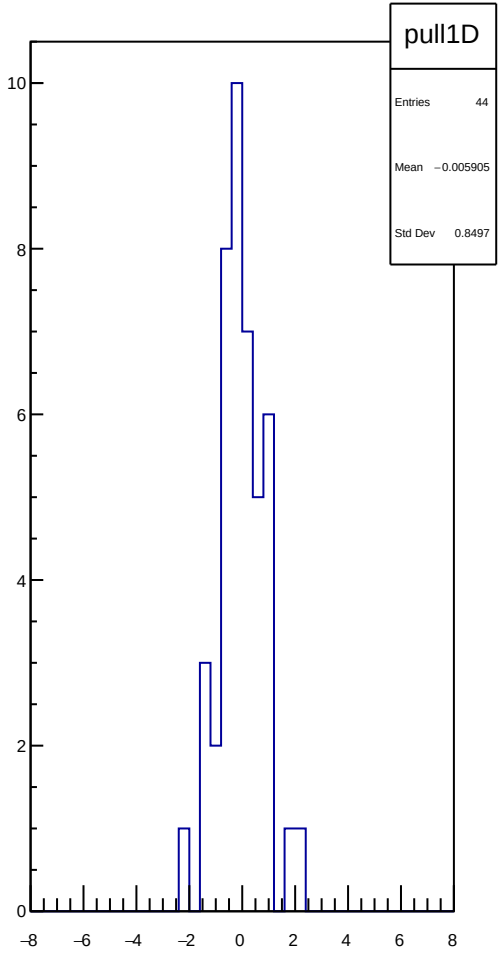

asym_atl_avg_correction_rms vs run
χ² / ndf 3.963e+04 / 43
p0 640.1 ± 0.6845
900
800
700
600
500
400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

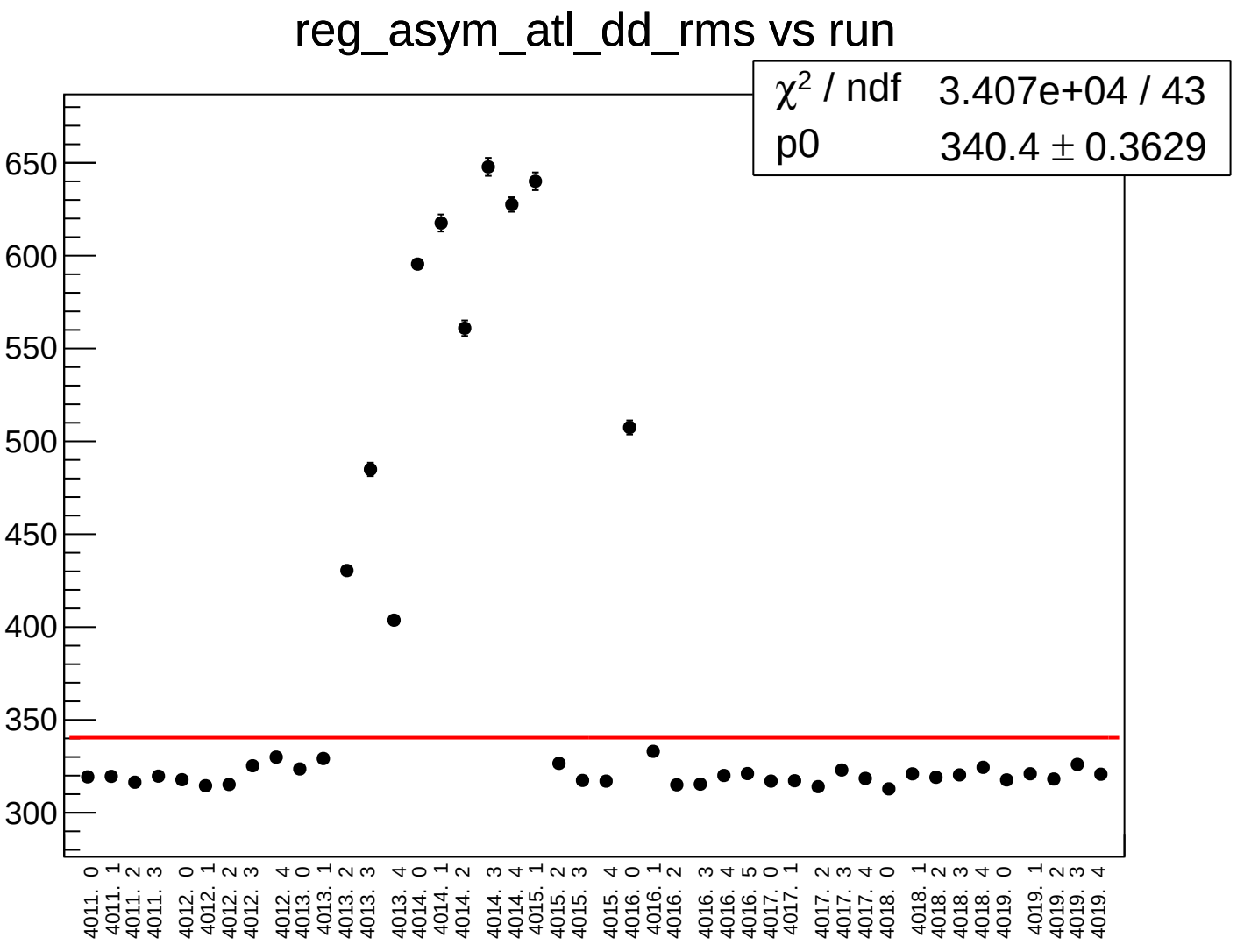

asym_atl_avg_mean vs run
χ^2 / ndf 61.22 / 43
p0 1096 ± 1089
30000
20000
10000
0
−10000
−20000
−30000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 6137
Std Dev 6120
2
1
0
−1
−2

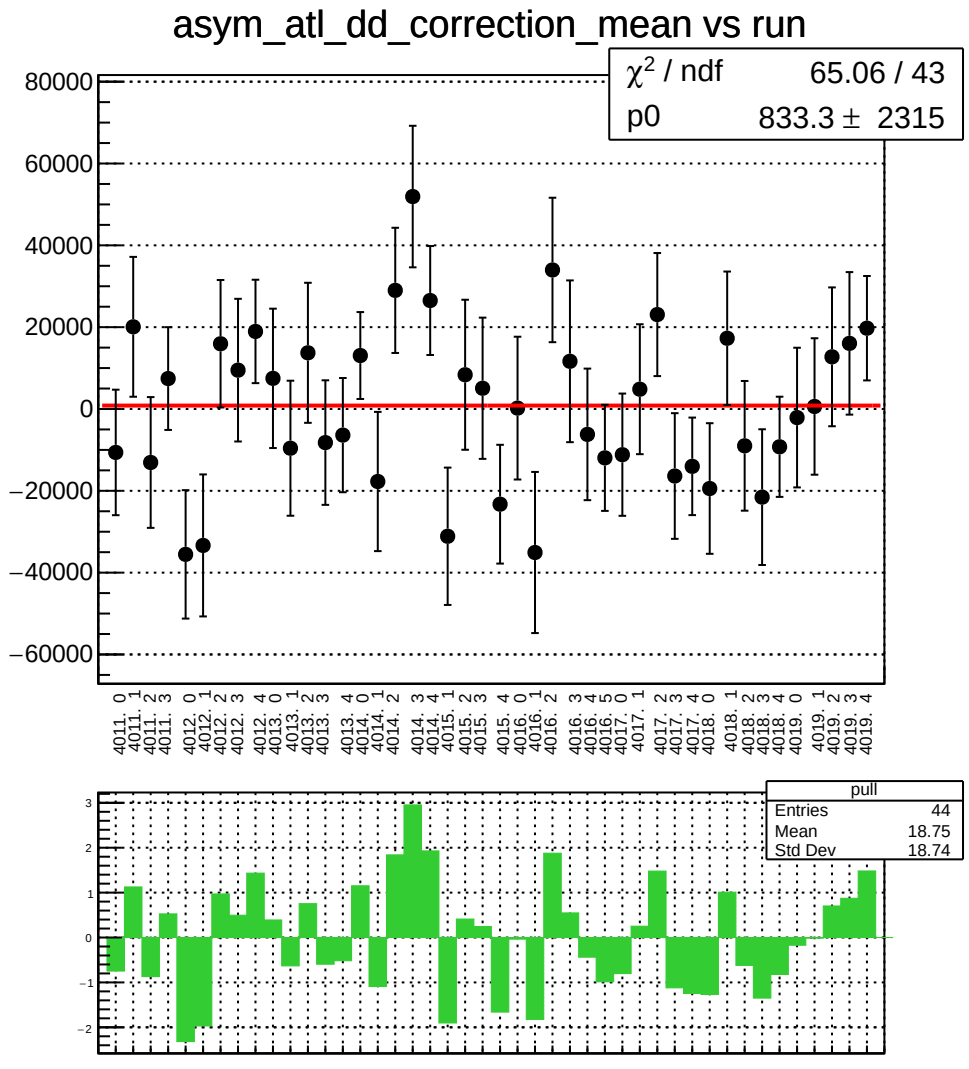

pull1D
Entries 44
Mean −0.0003513
Std Dev 1.18
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

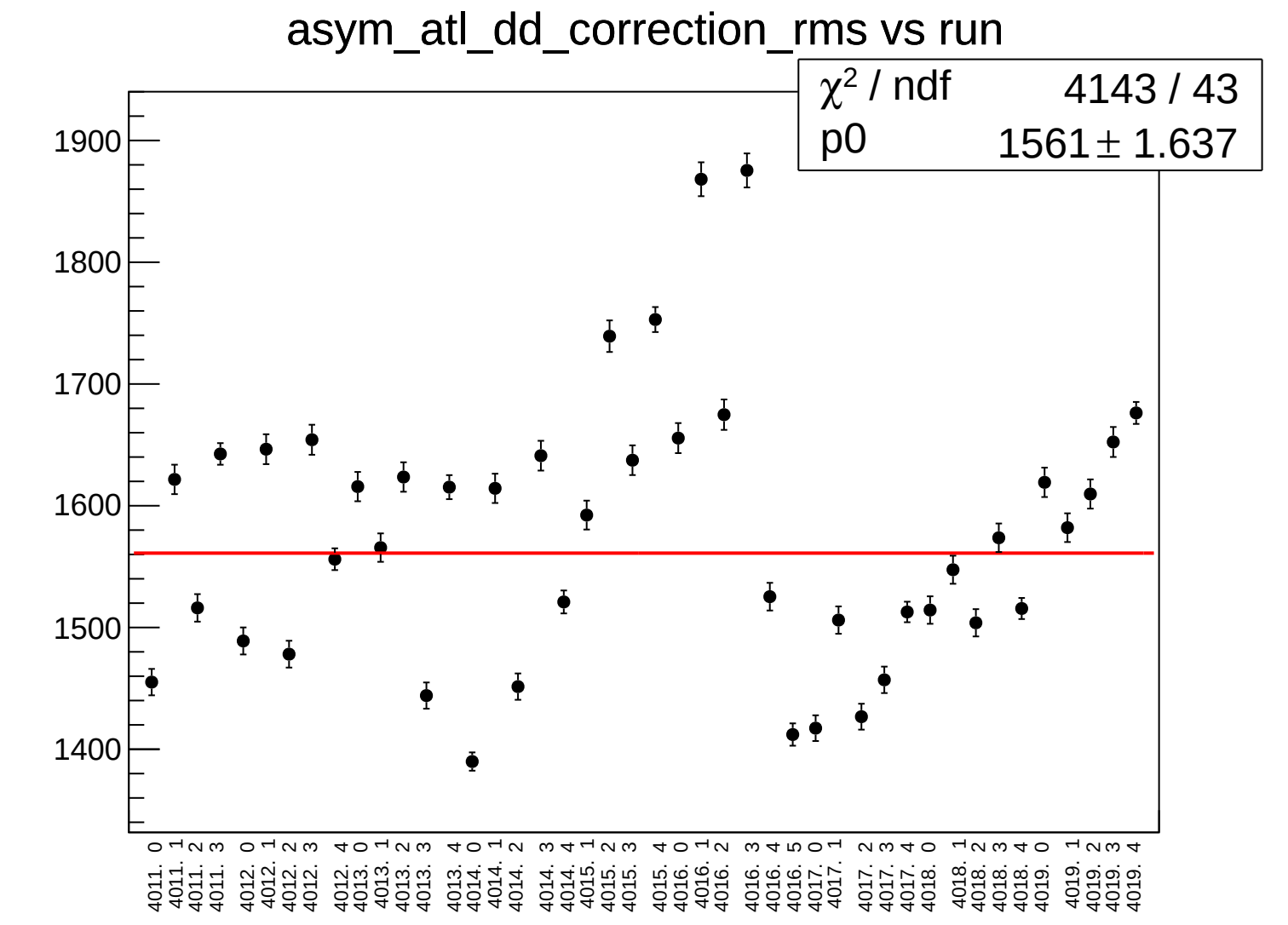

asym_atl_avg_rms vs run
χ² / ndf 2.385e+04 / 43
p0 726.6 ± 0.7701
1000
900
800
700
600
500
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

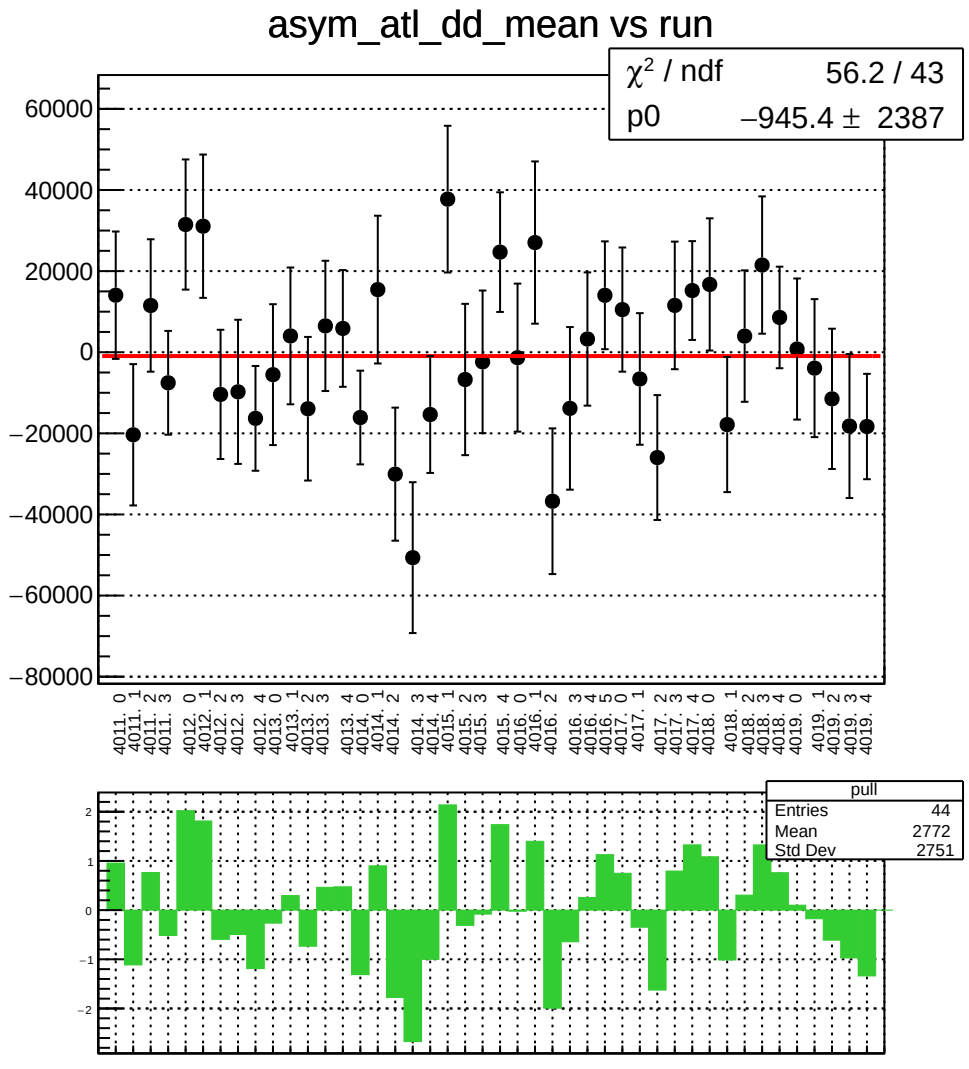

reg_asym_atl_dd_mean vs run
χ² / ndf 31.77 / 43
p0 −540.8 ± 513.2
15000
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 373
Std Dev 351.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

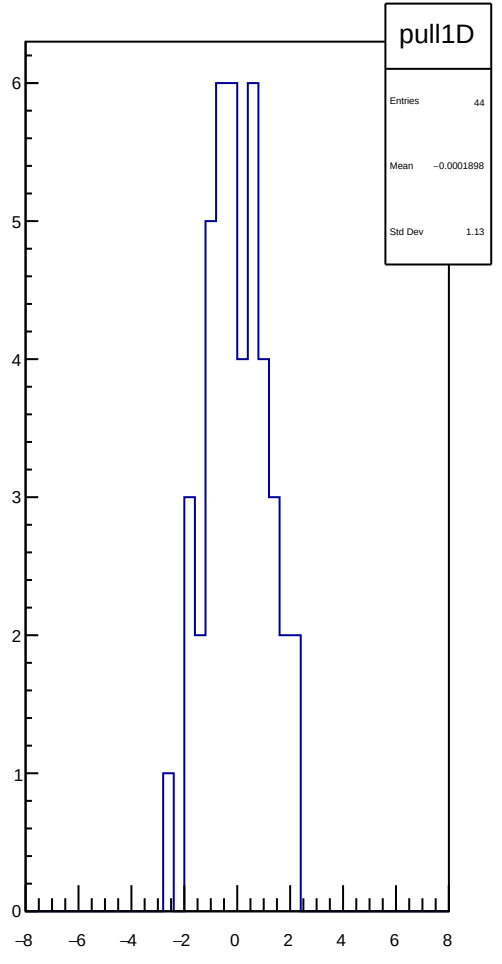

pull1D
Entries 44
Mean −0.005905
Std Dev 0.8497
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

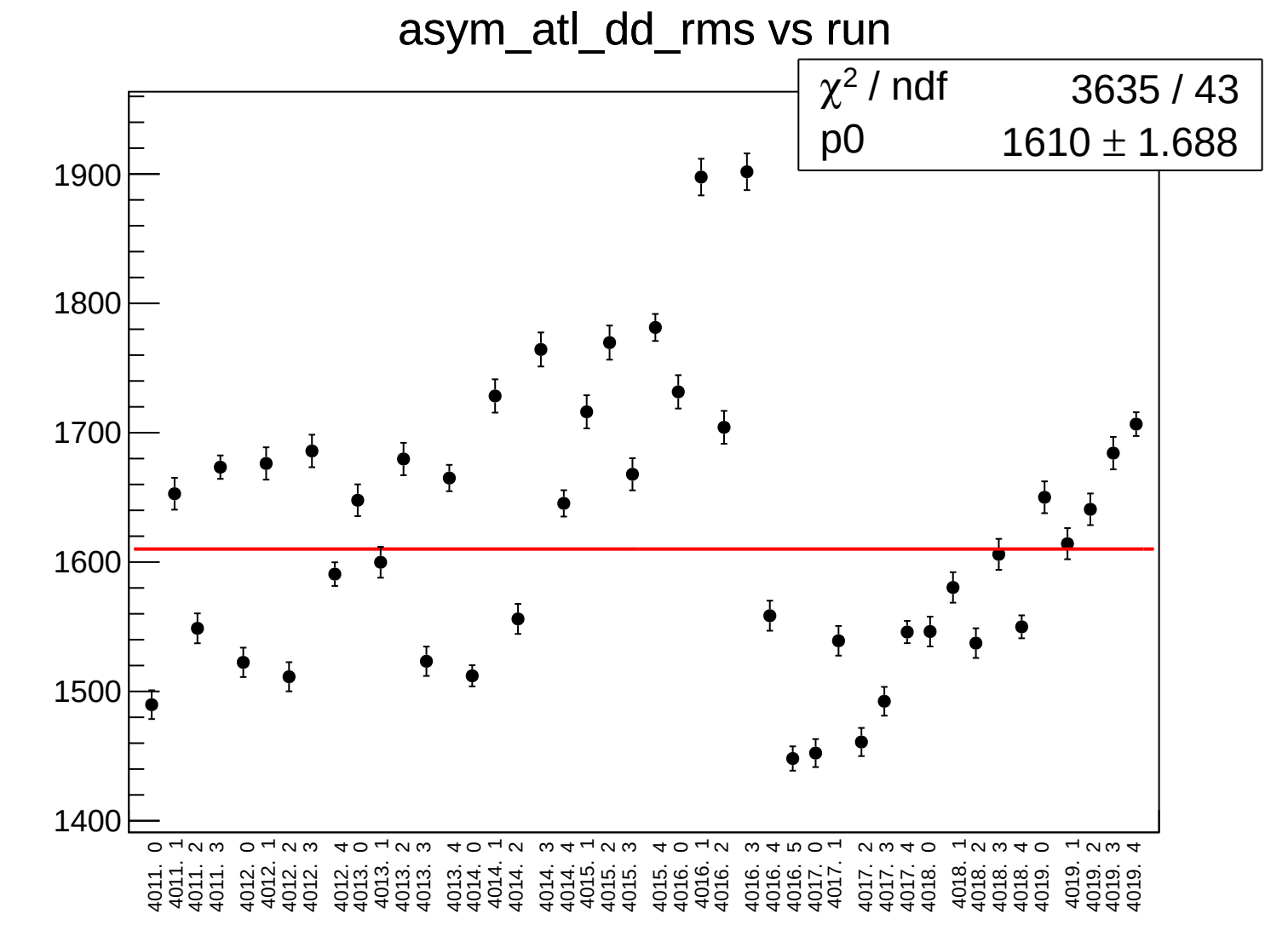

reg_asym_atl_dd_rms vs run
χ² / ndf 3.407e+04 / 43
p0 340.4 ± 0.3629
650
600
550
500
450
400
350
300
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

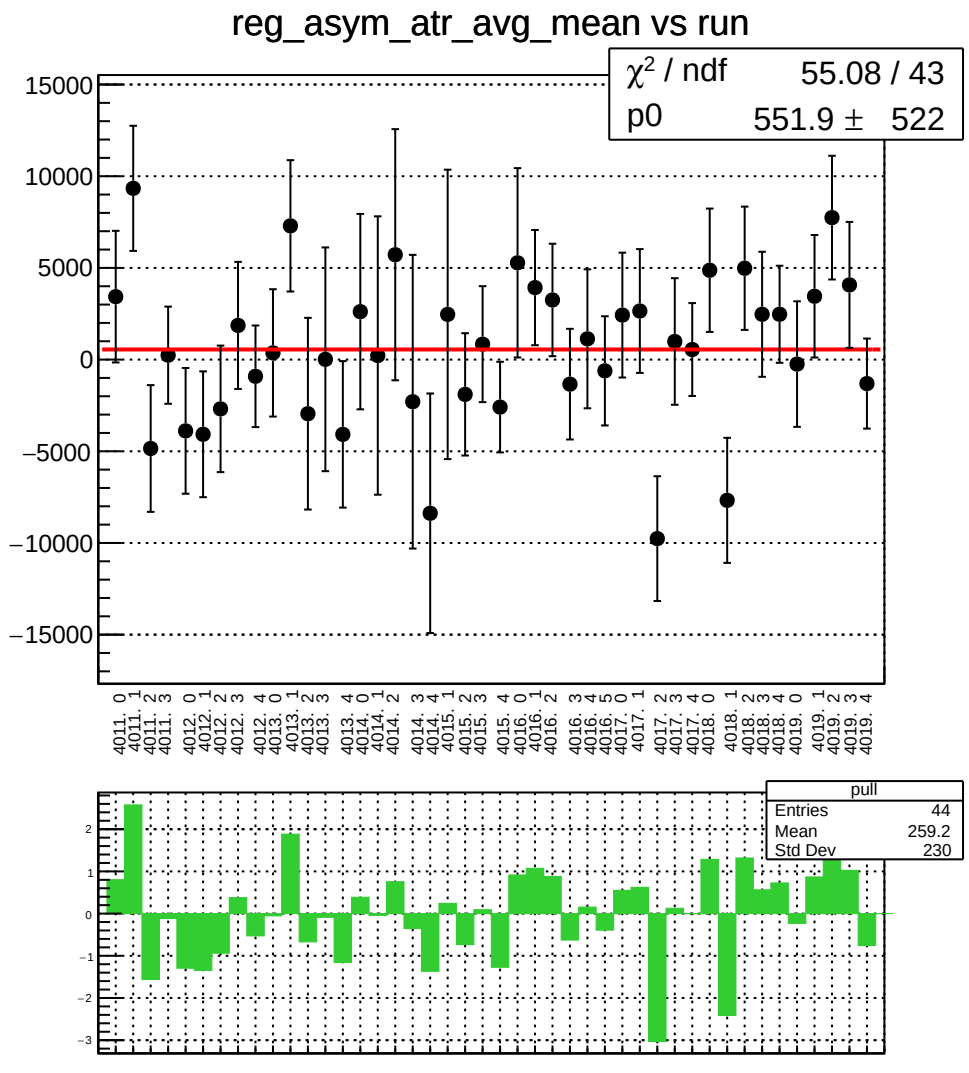

asym_atl_dd_correction_mean vs run
χ² / ndf 65.06 / 43
p0 833.3 ± 2315
80000
60000
40000
20000
0
−20000
−40000
−60000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 18.75
Std Dev 18.74
3
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.01249
Std Dev 1.216
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

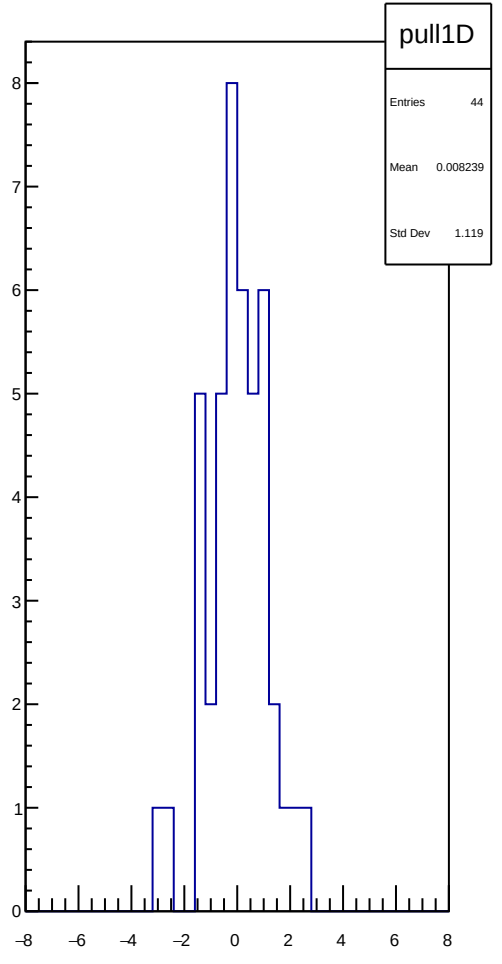

asym_atl_dd_correction_rms vs run
χ² / ndf 4143 / 43
p0 1561 ± 1.637
1900
1800
1700
1600
1500
1400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

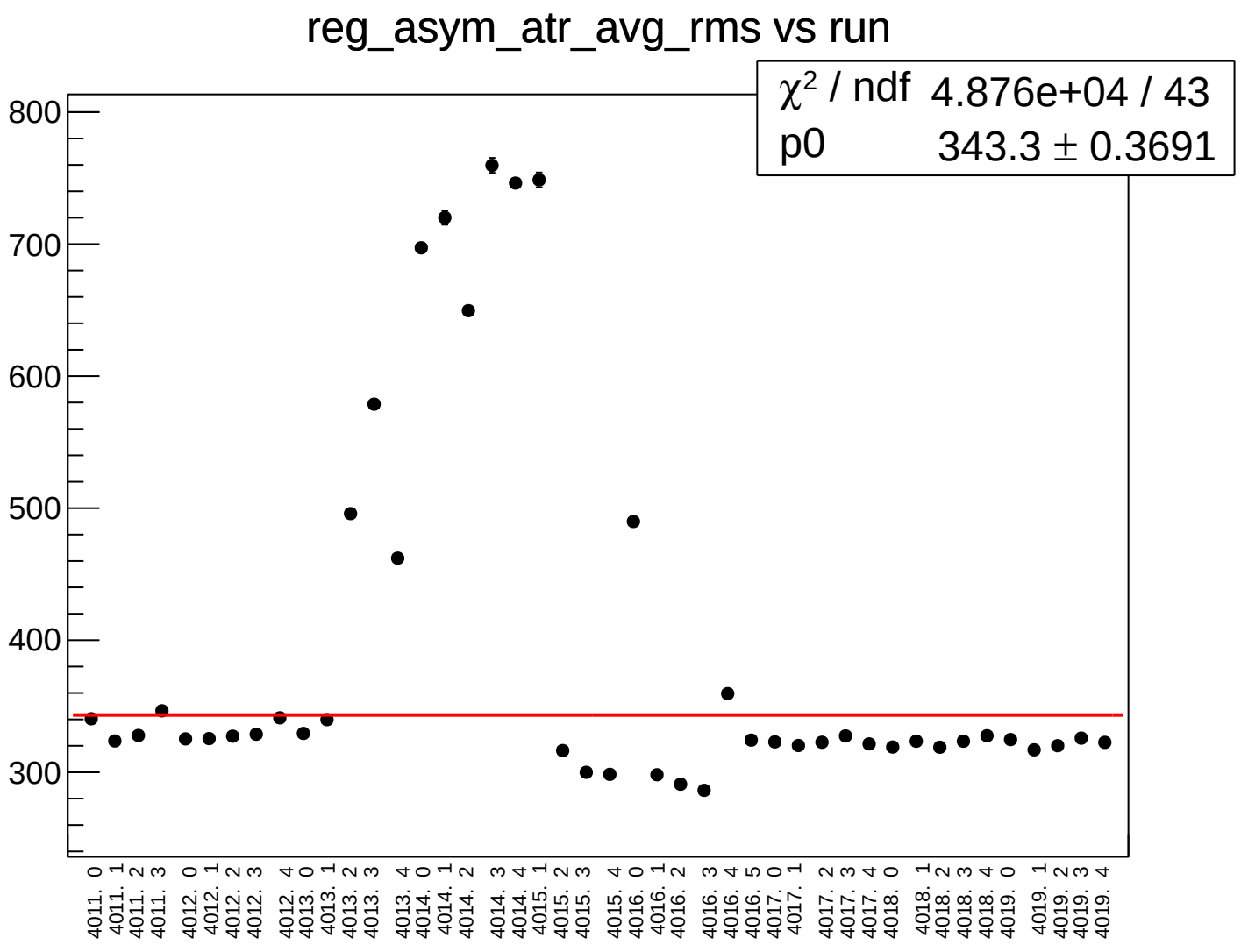

asym_atl_dd_mean vs run
χ² / ndf 56.2 / 43
p0 −945.4 ± 2387
60000
40000
20000
0
−20000
−40000
−60000
−80000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 2772
Std Dev 2751
2
1
0
−1
−2

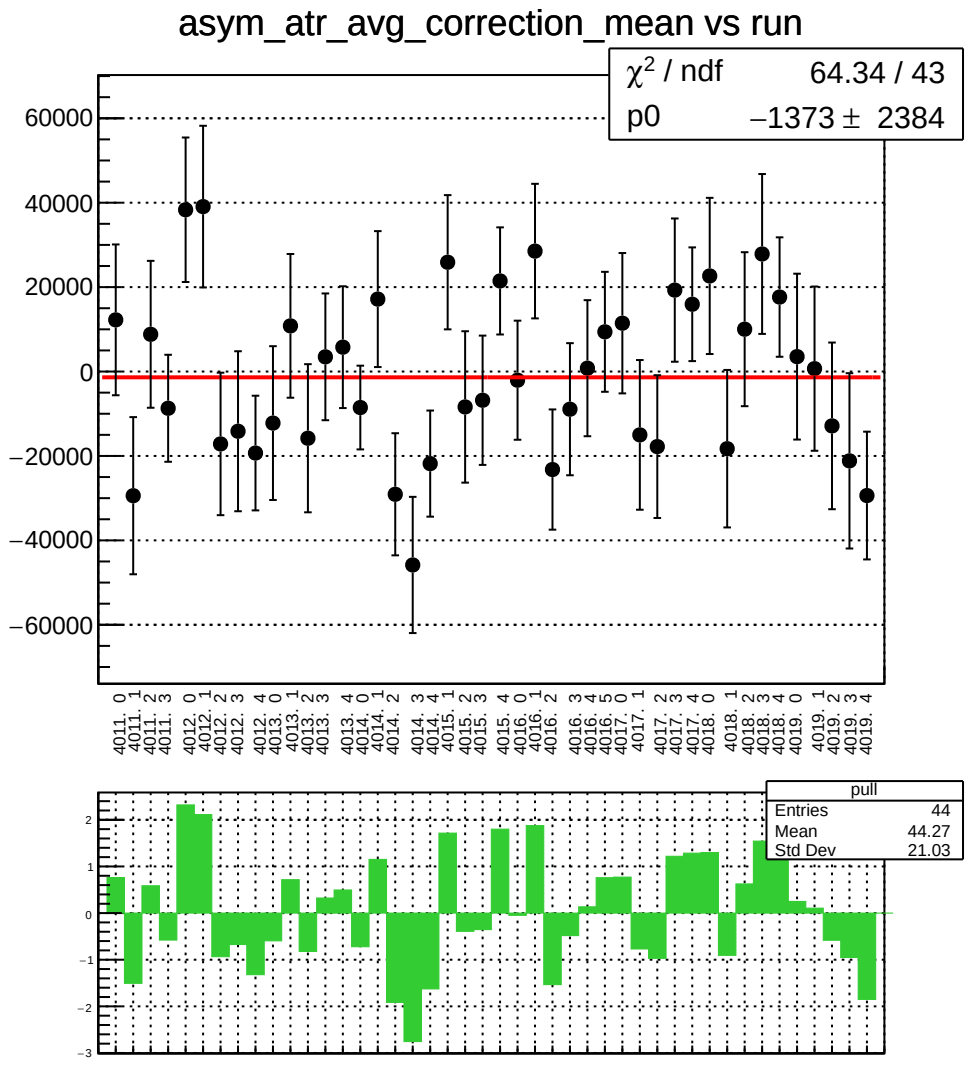

pull1D
Entries 44
Mean −0.0001898
Std Dev 1.13
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

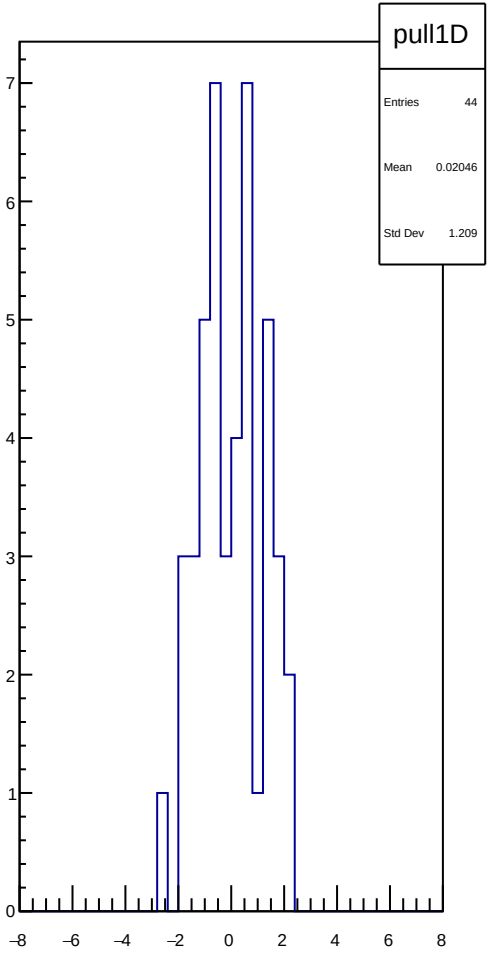

asym_atl_dd_rms vs run
χ² / ndf 3635 / 43
p0 1610 ± 1.688
1900
1800
1700
1600
1500
1400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

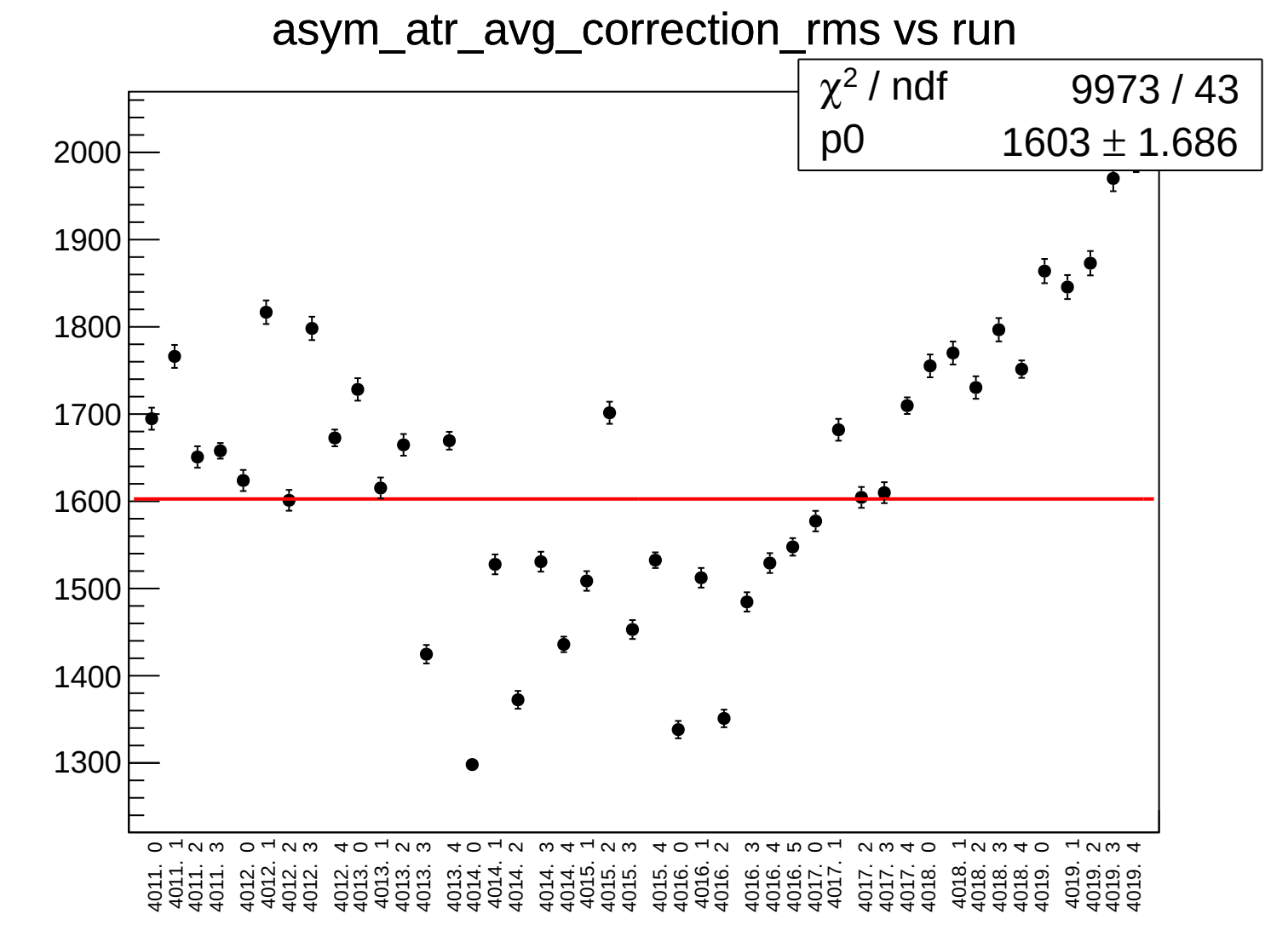

reg_asym_atr_avg_mean vs run
χ² / ndf 55.08 / 43
p0 551.9 ± 522
15000
10000
5000
0
−5000
−10000
−15000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 259.2
Std Dev 230
2
1
0
−1
−2
−3

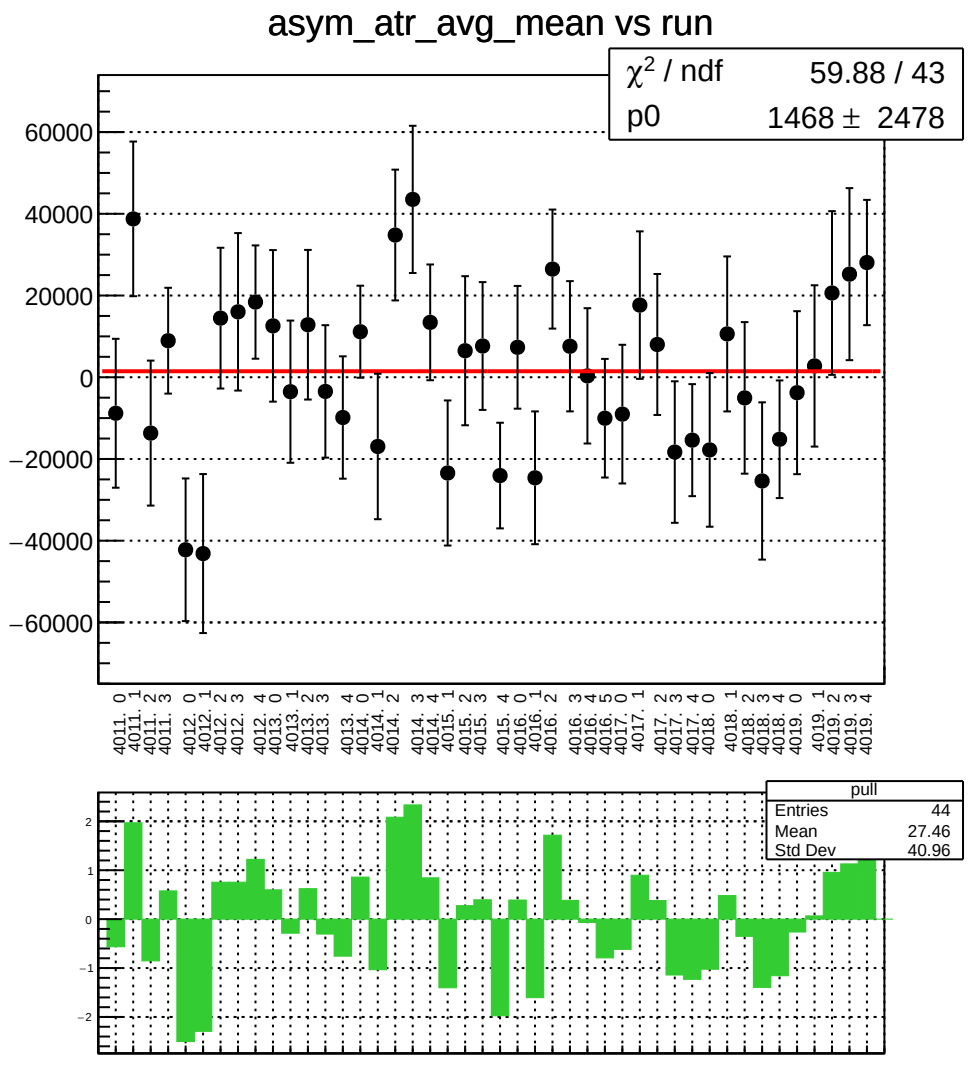

pull1D
Entries 44
Mean 0.008239
Std Dev 1.119
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

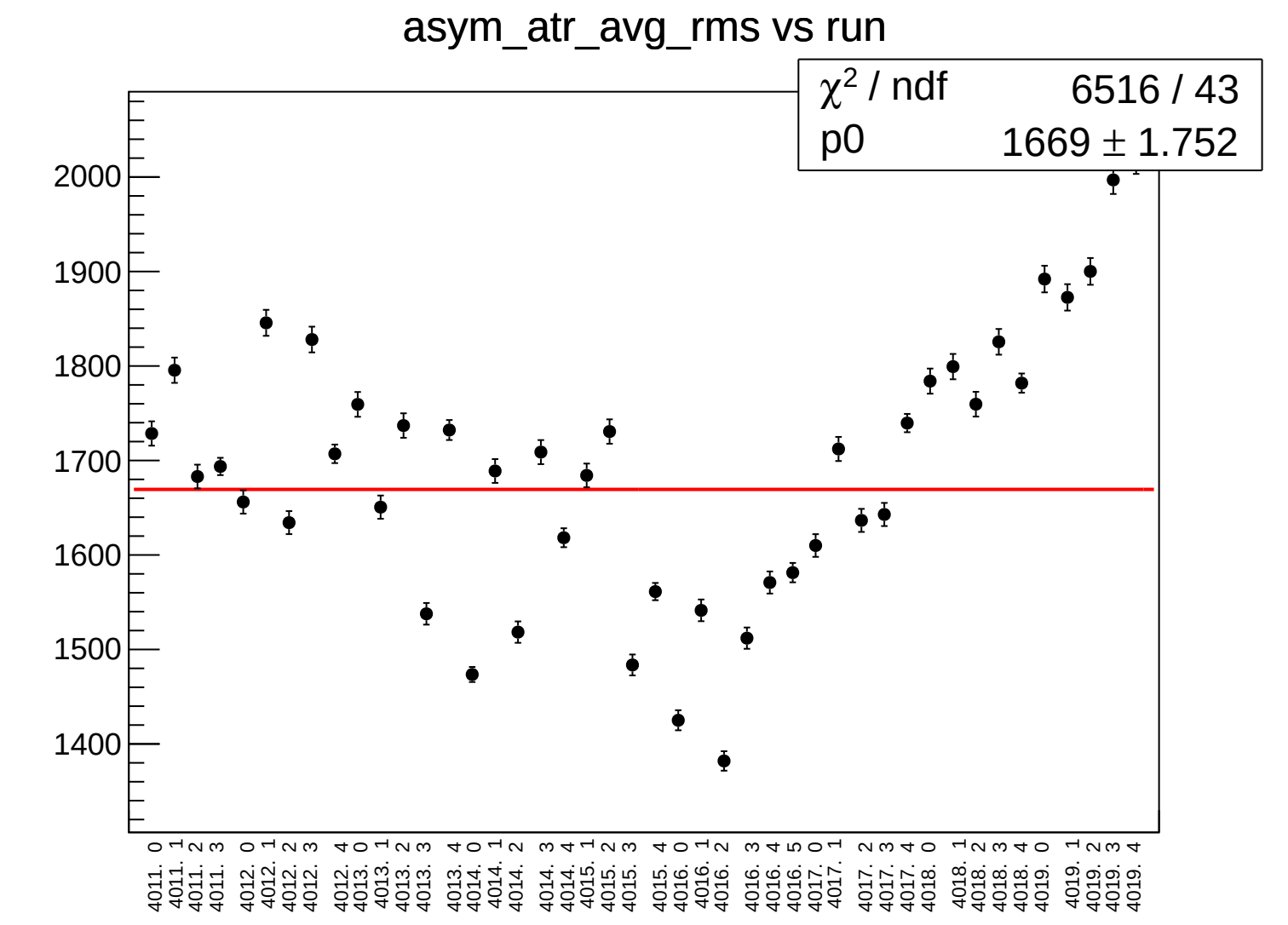

reg_asym_atr_avg_rms vs run
χ² / ndf 4.876e+04 / 43
p0 343.3 ± 0.3691
800
700
600
500
400
300
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

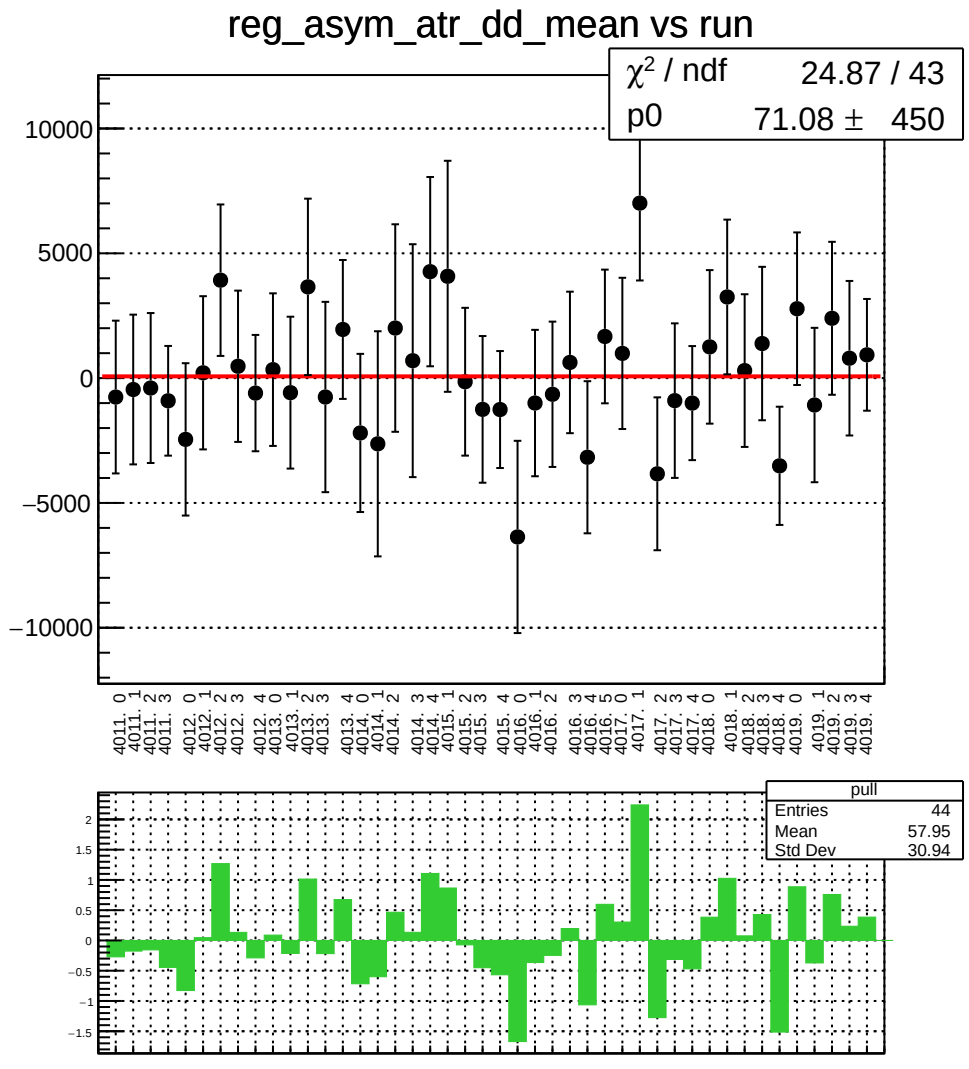

asym_atr_avg_correction_mean vs run
χ² / ndf 64.34 / 43
p0 −1373 ± 2384
60000
40000
20000
0
−20000
−40000
−60000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 44.27
Std Dev 21.03
2
1
0
−1
−2
−3

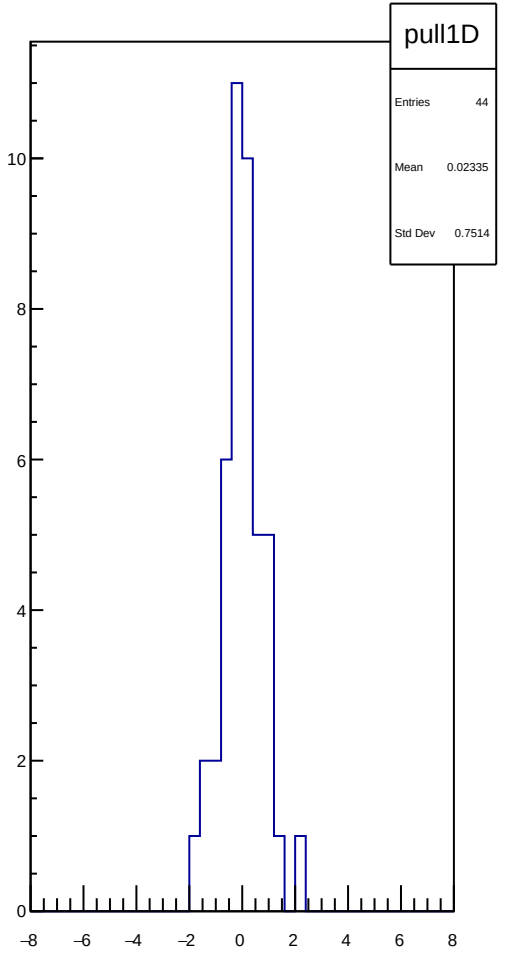

pull1D
Entries 44
Mean 0.02046
Std Dev 1.209
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

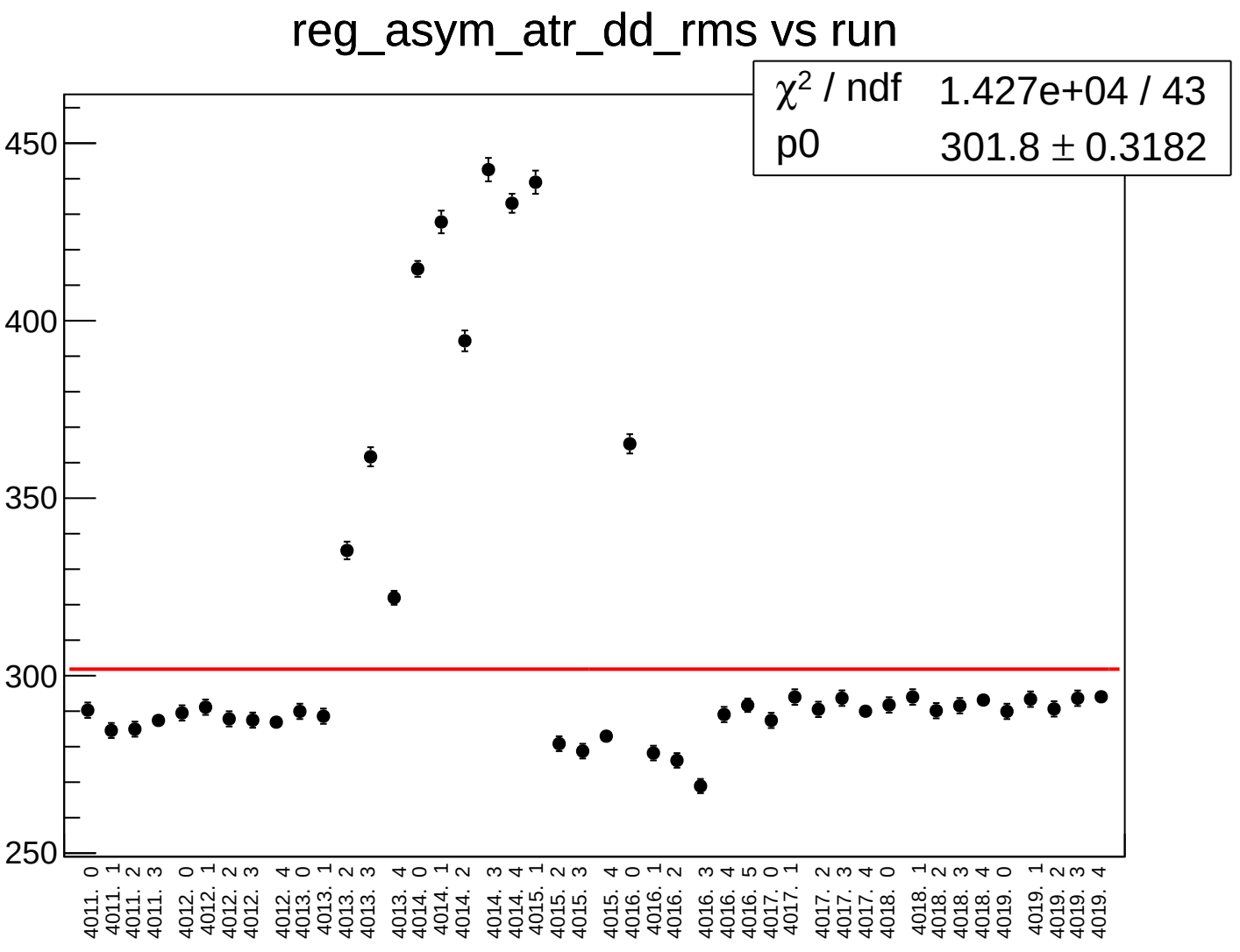

asym_atr_avg_correction_rms vs run
χ² / ndf 9973 / 43
p0 1603 ± 1.686
2000
1900
1800
1700
1600
1500
1400
1300
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

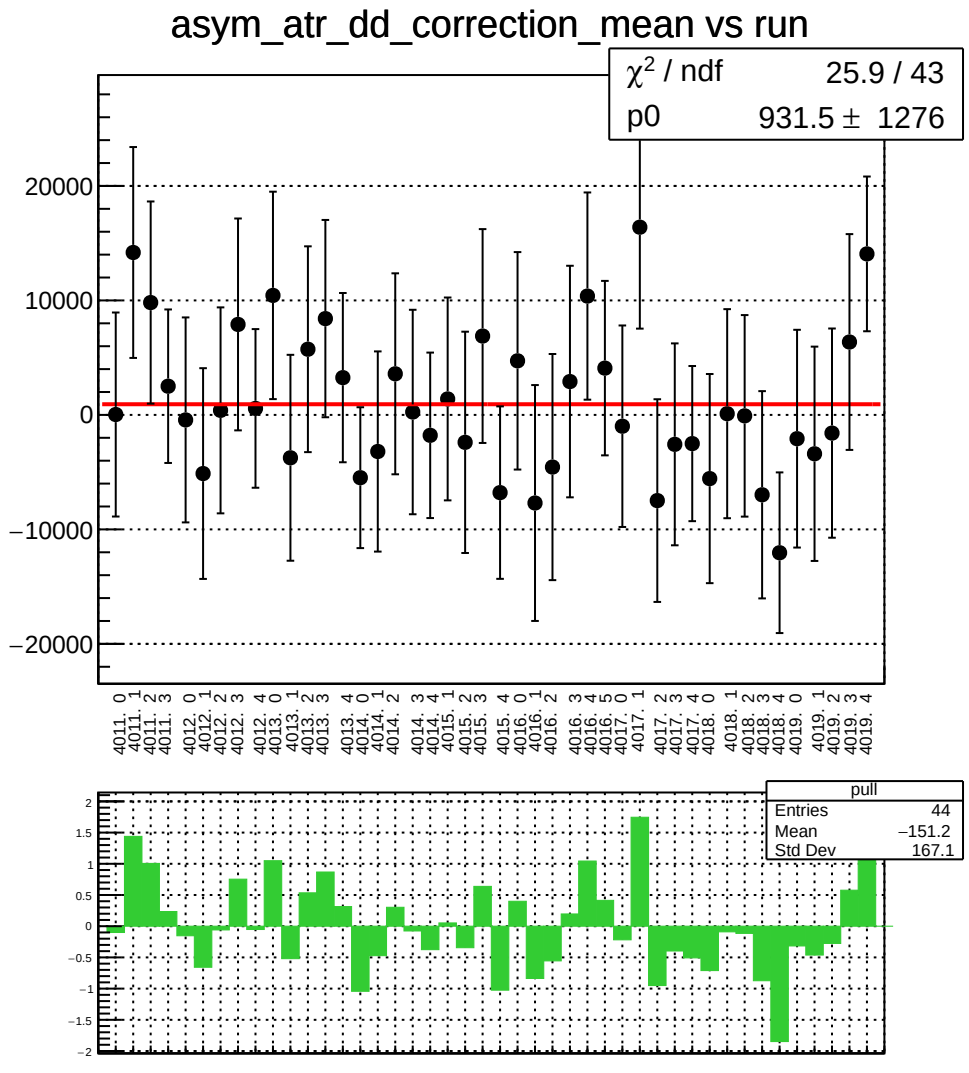

asym_atr_avg_mean vs run
χ² / ndf 59.88 / 43
p0 1468 ± 2478
60000
40000
20000
0
−20000
−40000
−60000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 27.46
Std Dev 40.96
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.004367
Std Dev 1.167
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

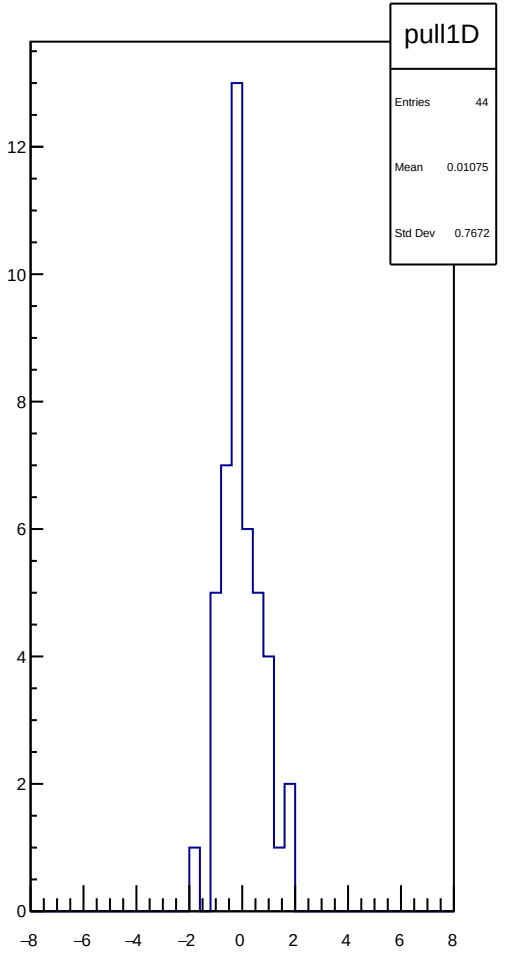

asym_atr_avg_rms vs run
χ² / ndf 6516 / 43
p0 1669 ± 1.752
2000
1900
1800
1700
1600
1500
1400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

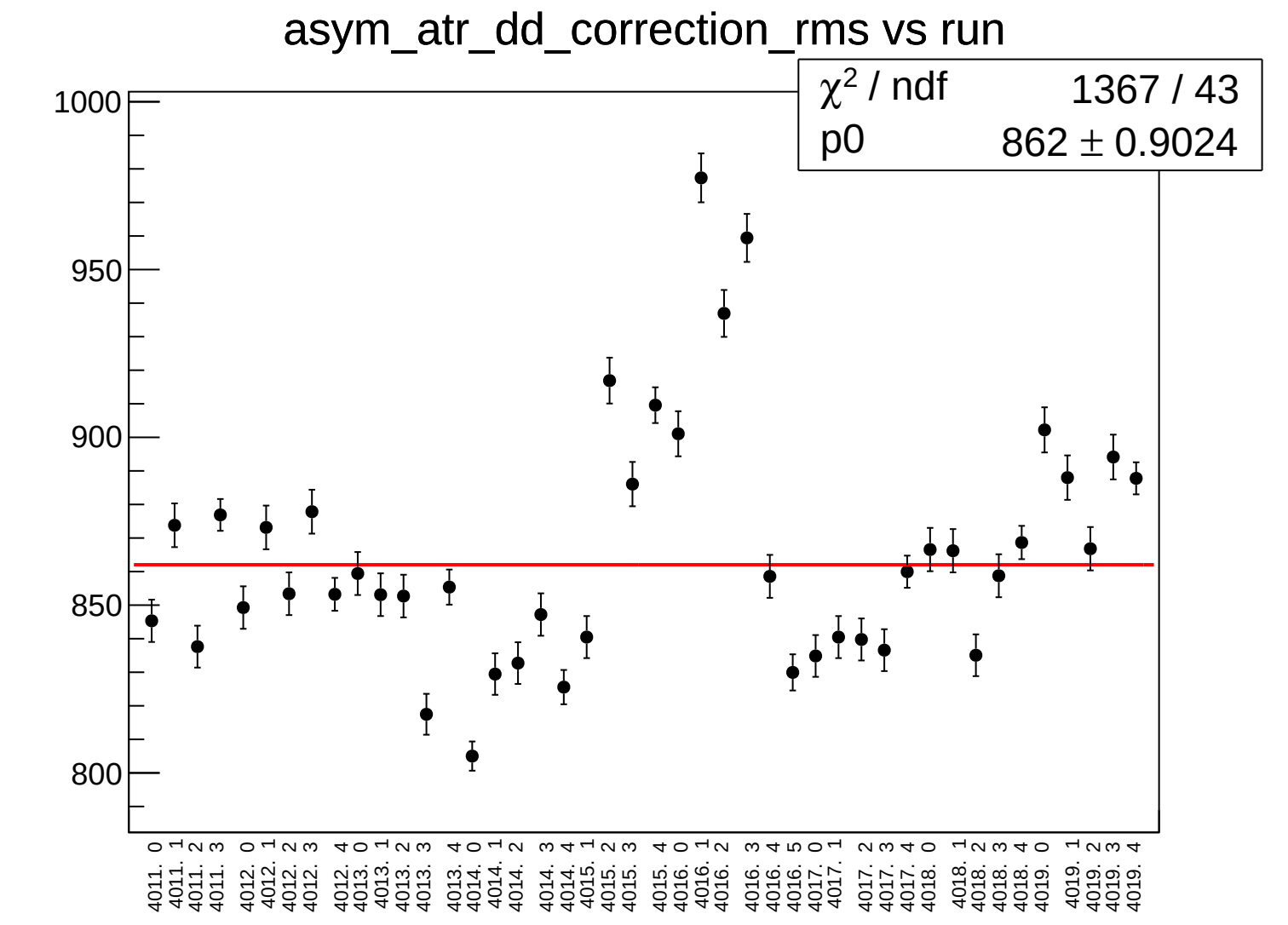

reg_asym_atr_dd_mean vs run
χ² / ndf 24.87 / 43
p0 71.08 ± 450
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 57.95
Std Dev 30.94
2
1.5
1
0.5
0
−0.5
−1
−1.5

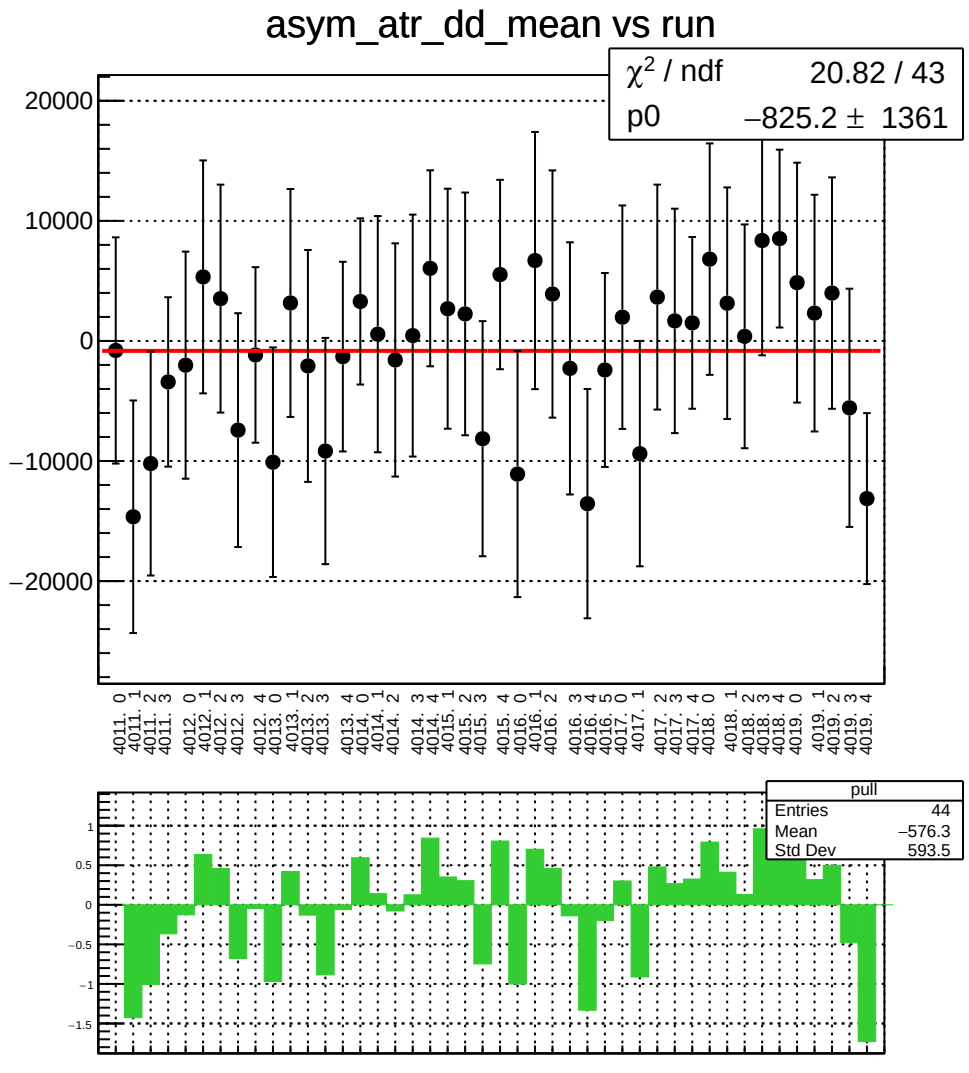

pull1D
Entries 44
Mean 0.02335
Std Dev 0.7514
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

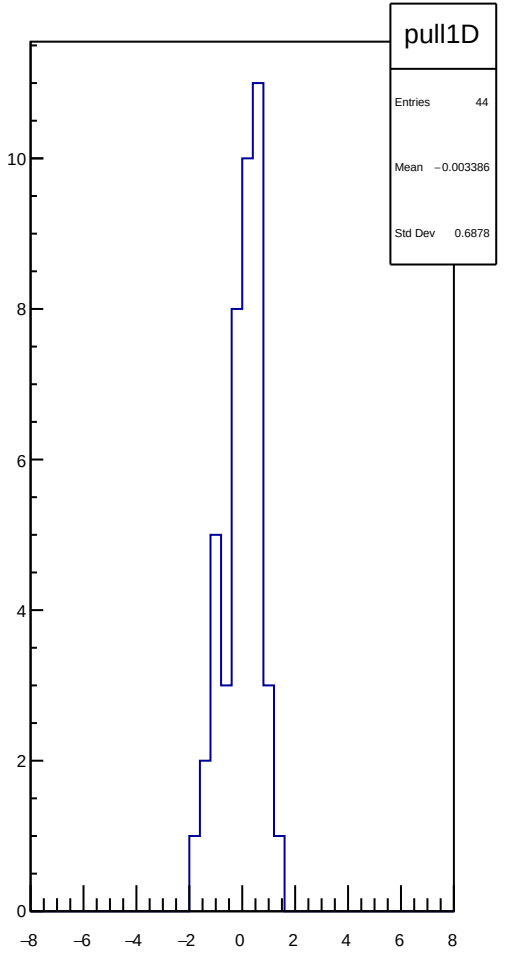

reg_asym_atr_dd_rms vs run
χ² / ndf 1.427e+04 / 43
p0 301.8 ± 0.3182
450
400
350
300
250
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

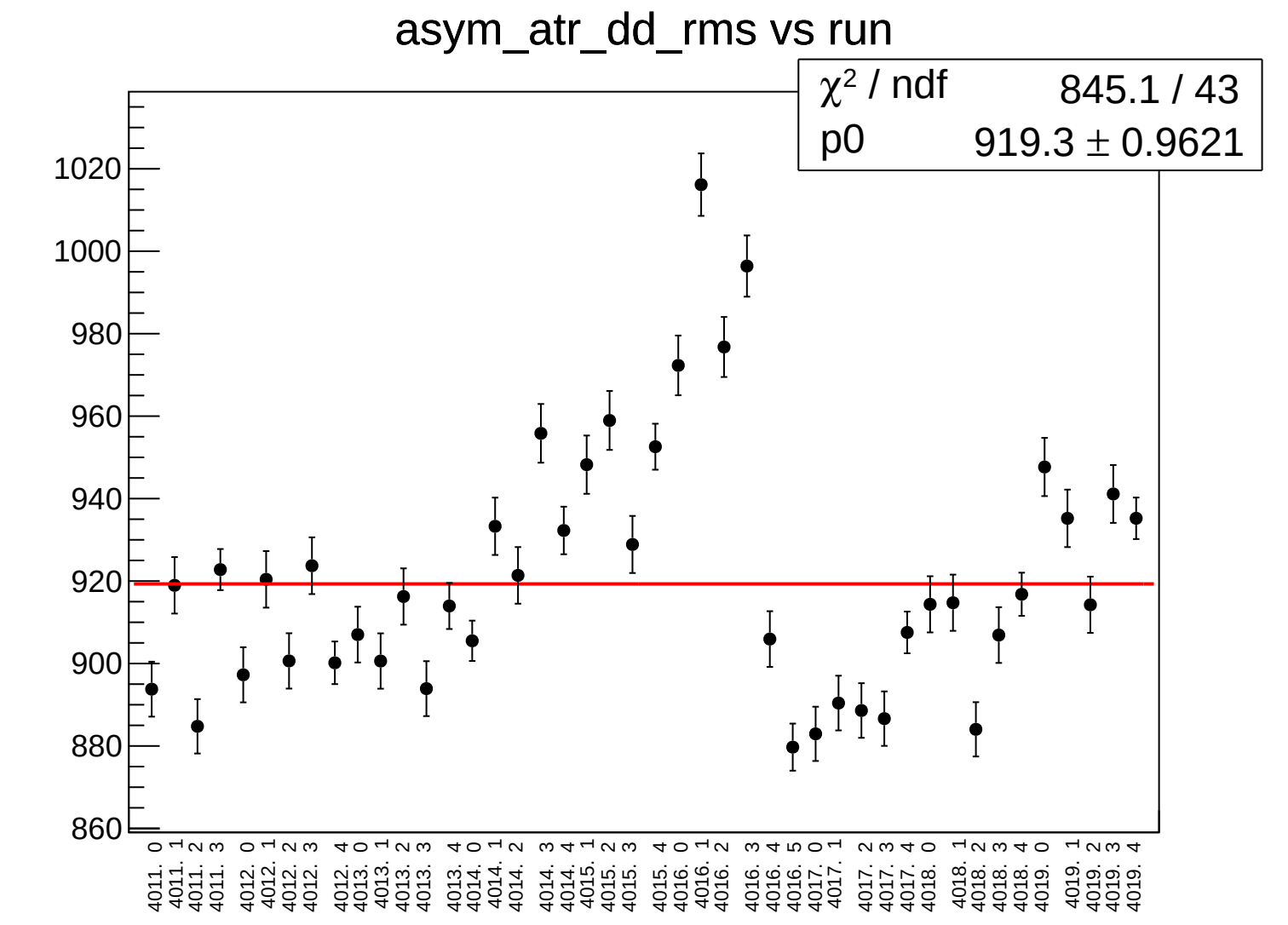

asym_atr_dd_correction_mean vs run
χ² / ndf 25.9 / 43
p0 931.5 ± 1276
20000
10000
0
−10000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −151.2
Std Dev 167.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

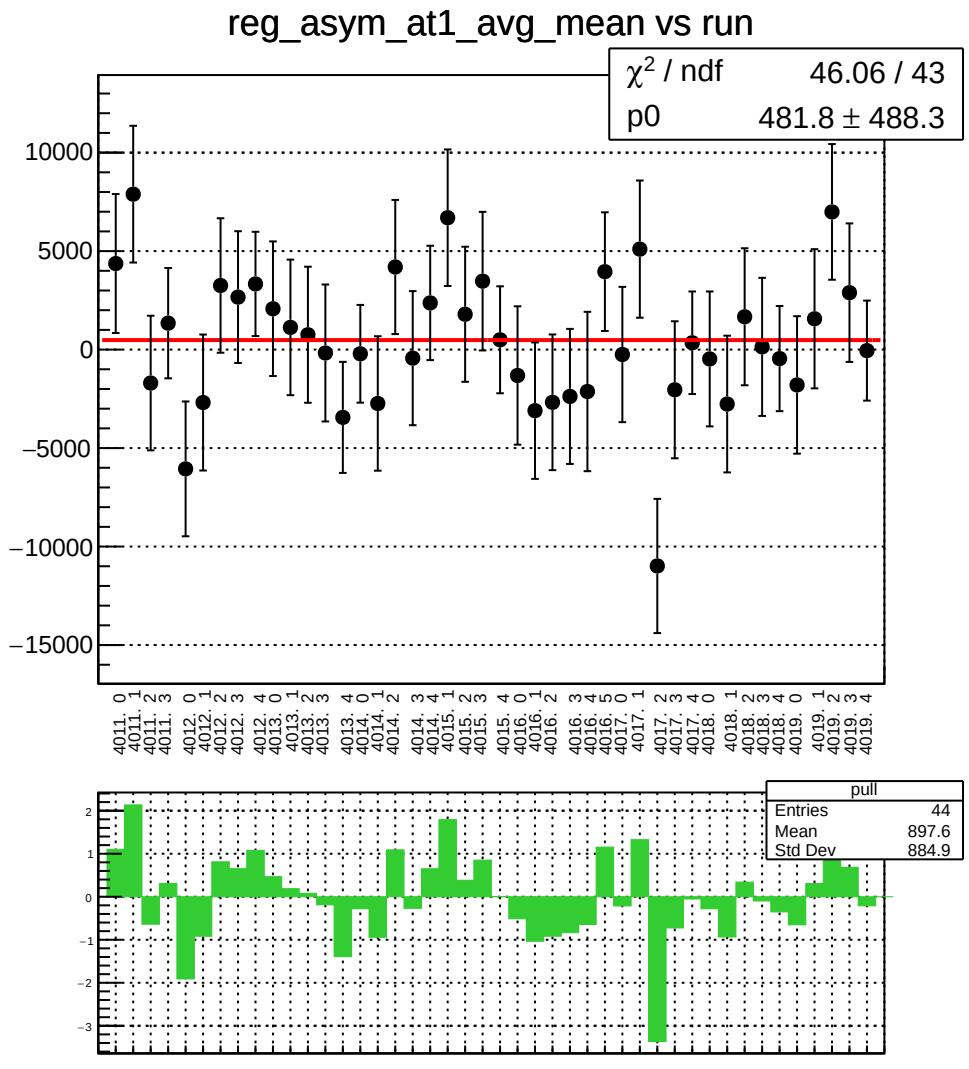

pull1D
Entries 44
Mean 0.01075
Std Dev 0.7672
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

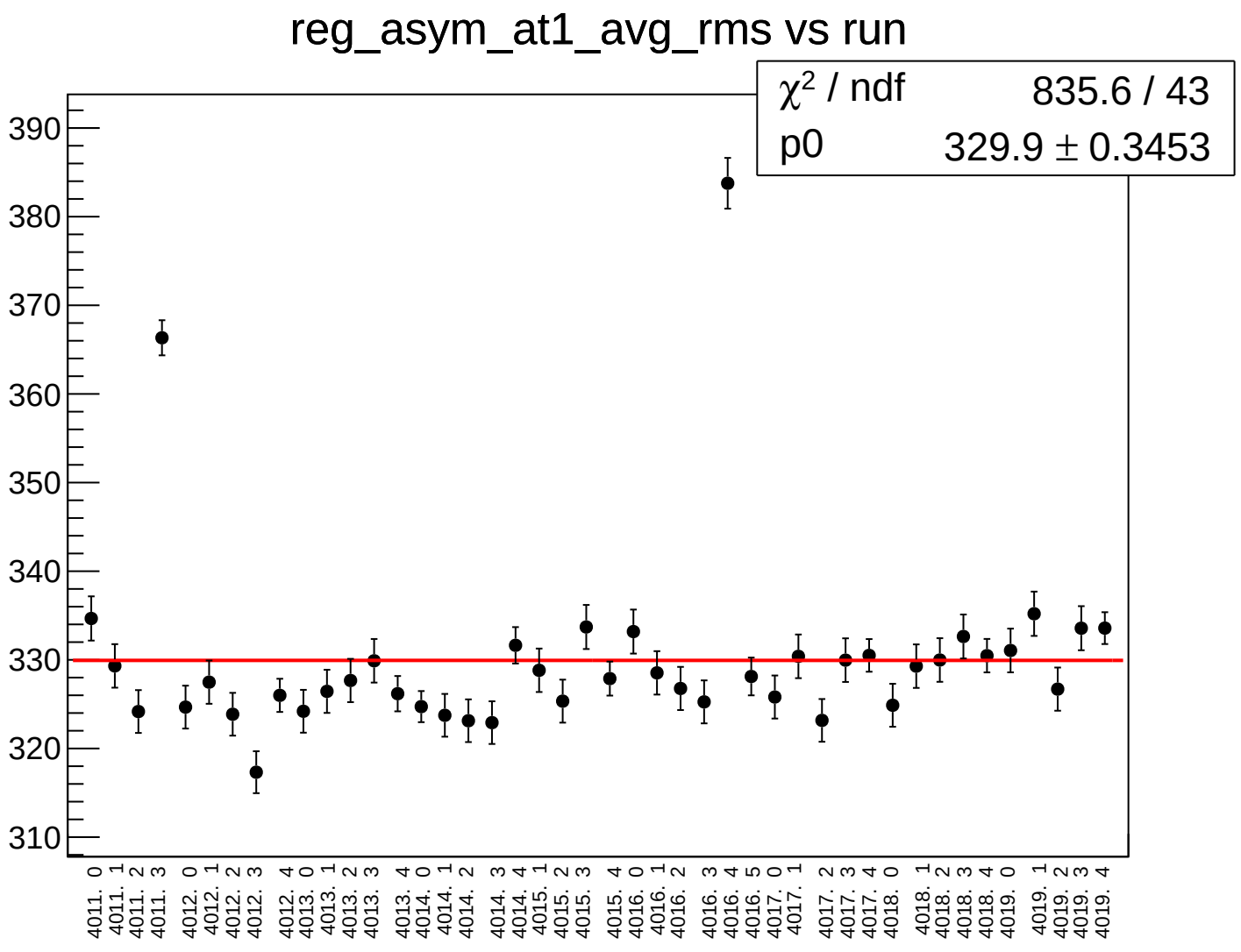

asym_atr_dd_correction_rms vs run
χ² / ndf 1367 / 43
p0 862 ± 0.9024
1000
950
900
850
800
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4


asym_atr_dd_mean vs run
χ² / ndf 20.82 / 43
p0 −825.2 ± 1361
20000
10000
0
−10000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −576.3
Std Dev 593.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 44
Mean −0.003386
Std Dev 0.6878
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_rms vs run
χ² / ndf 845.1 / 43
p0 919.3 ± 0.9621
1020
1000
980
960
940
920
900
880
860
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4


reg_asym_at1_avg_mean vs run
χ² / ndf 46.06 / 43
p0 481.8 ± 488.3
10000
5000
0
−5000
−10000
−15000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 897.6
Std Dev 884.9
2
1
0
−1
−2
−3
pull1D
Entries 44
Mean −0.001634
Std Dev 1.023
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_avg_rms vs run
χ² / ndf 835.6 / 43
p0 329.9 ± 0.3453
390
380
370
360
350
340
330
320
310
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
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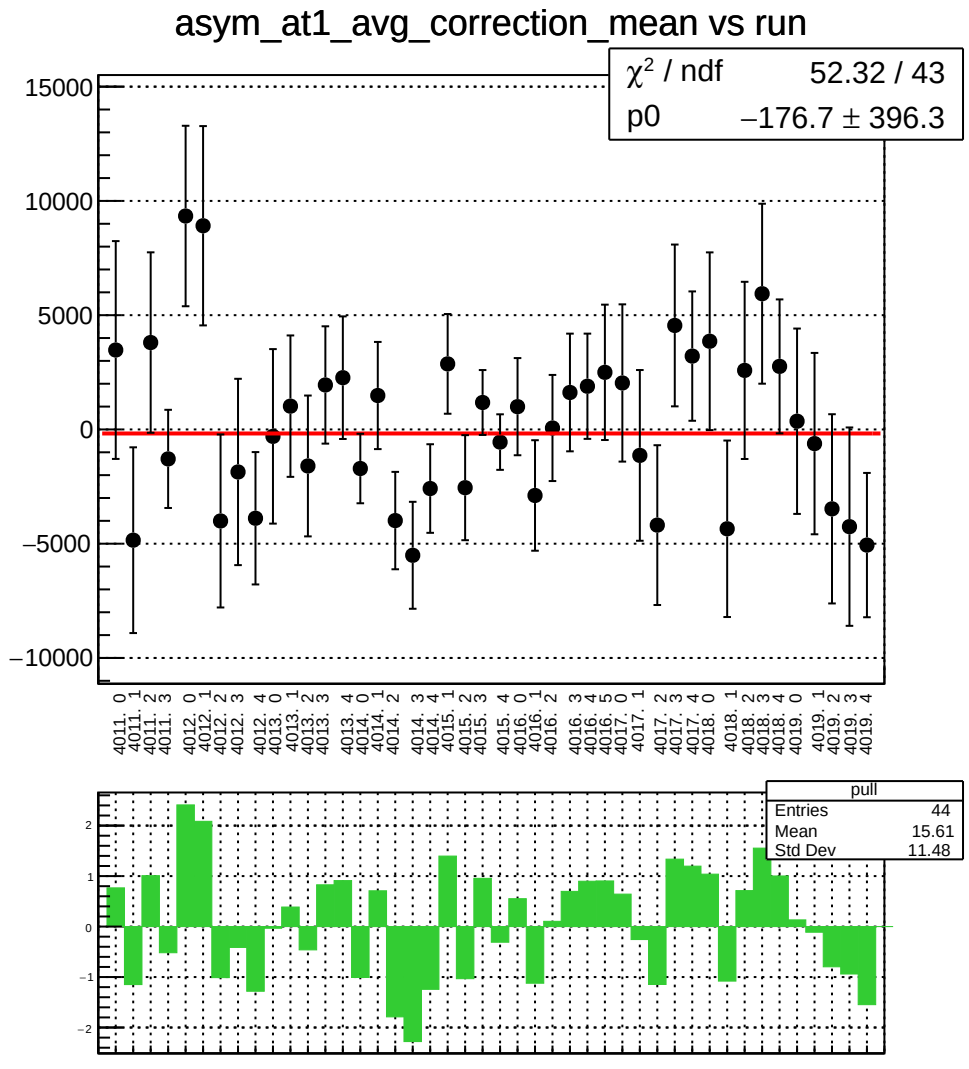
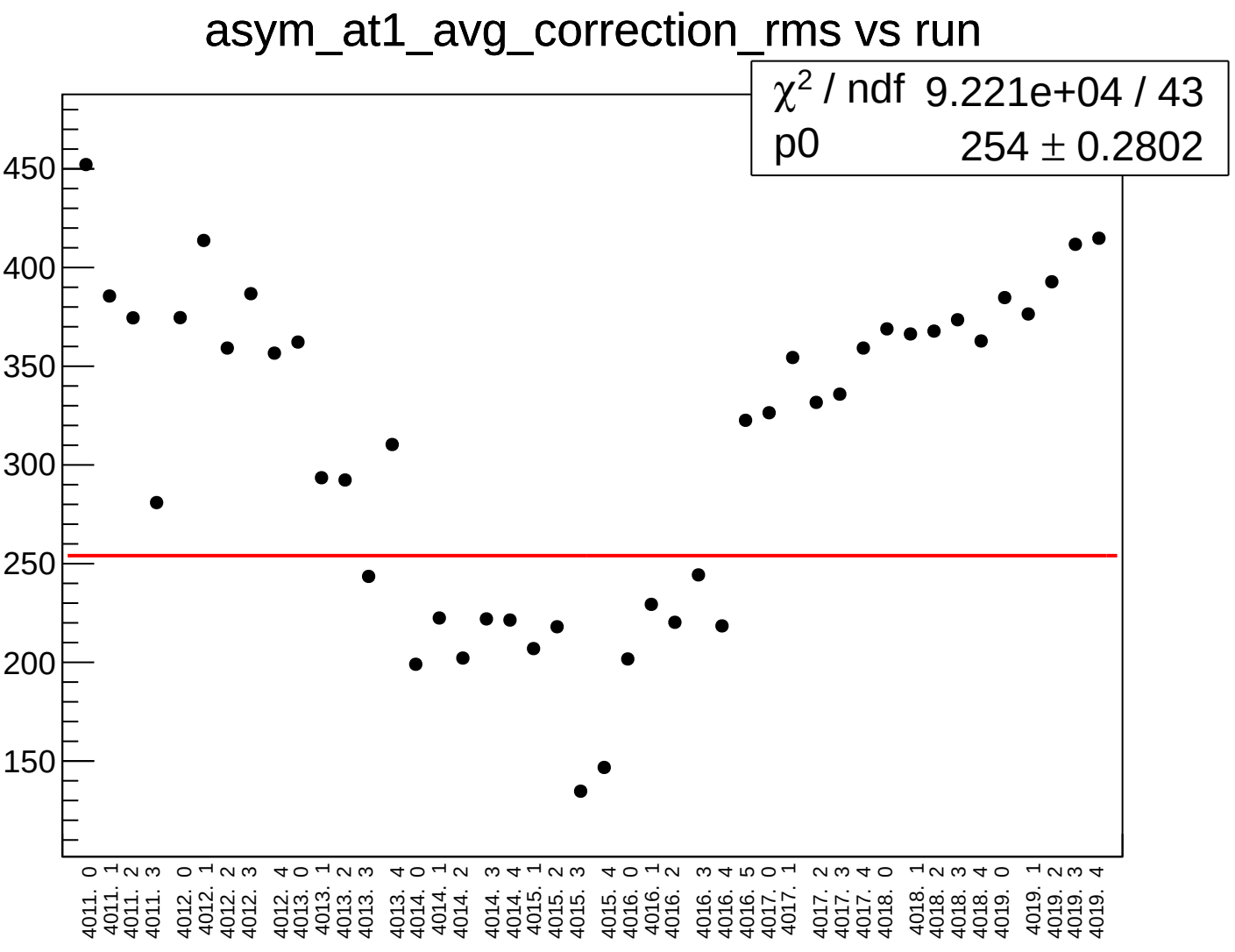
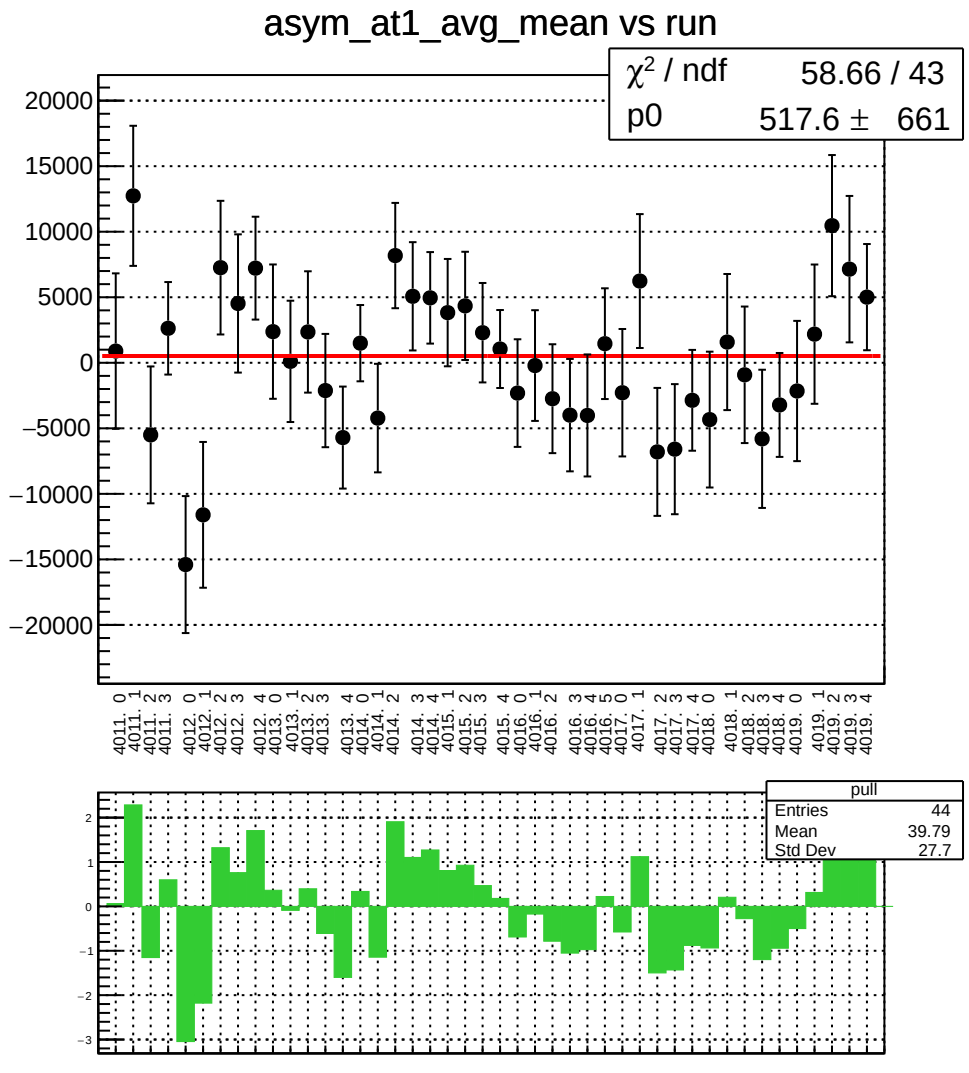
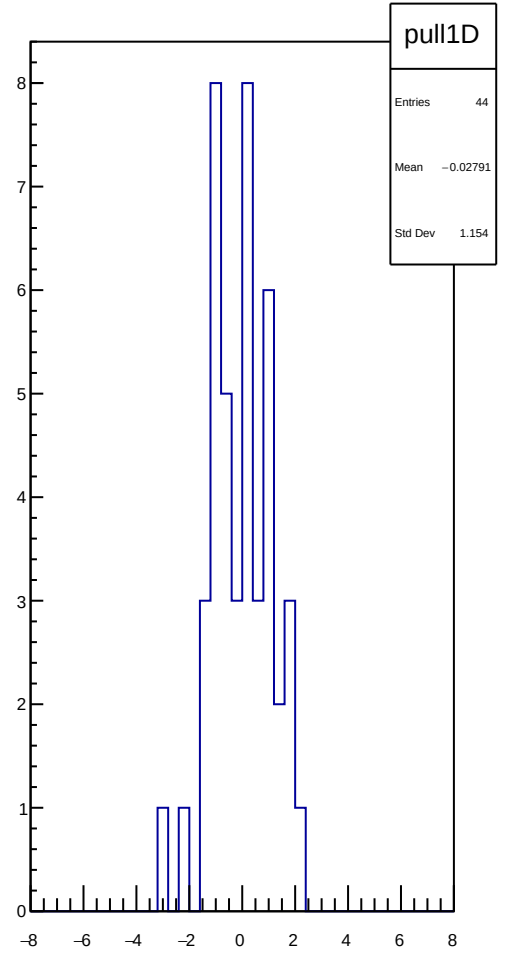
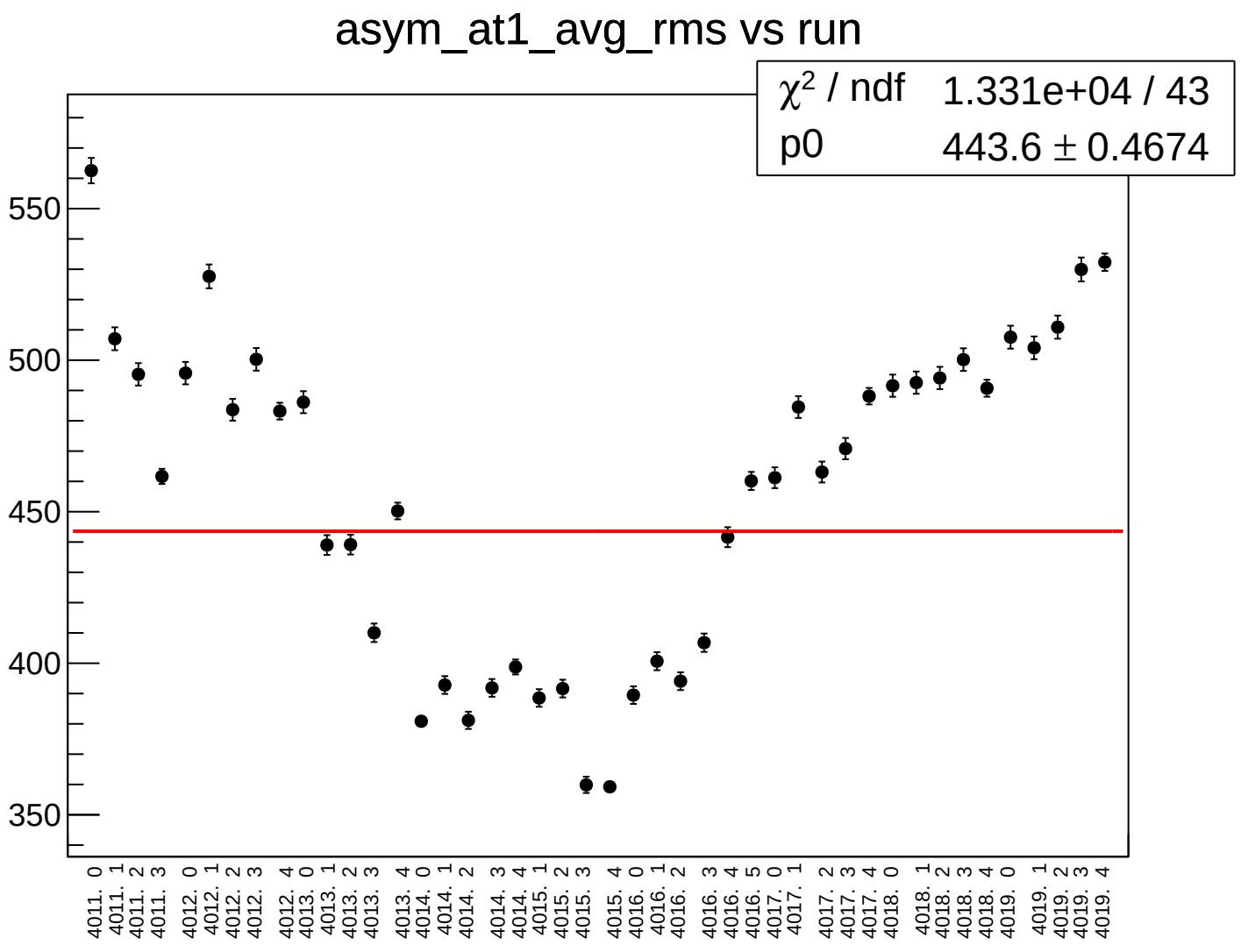
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

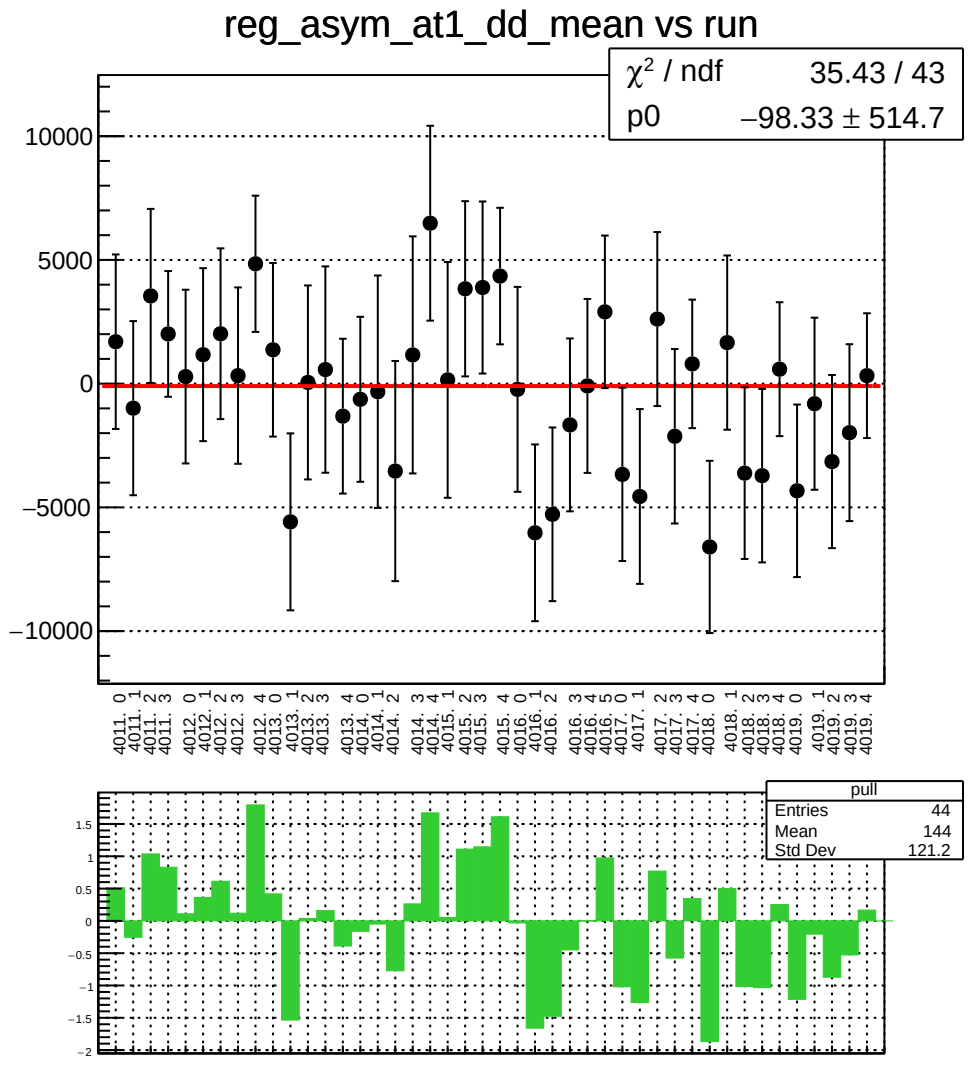

asym_at1_avg_correction_mean vs run
χ² / ndf 52.32 / 43
p0 −176.7 ± 396.3
15000
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 15.61
Std Dev 11.48
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.06116
Std Dev 1.089
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

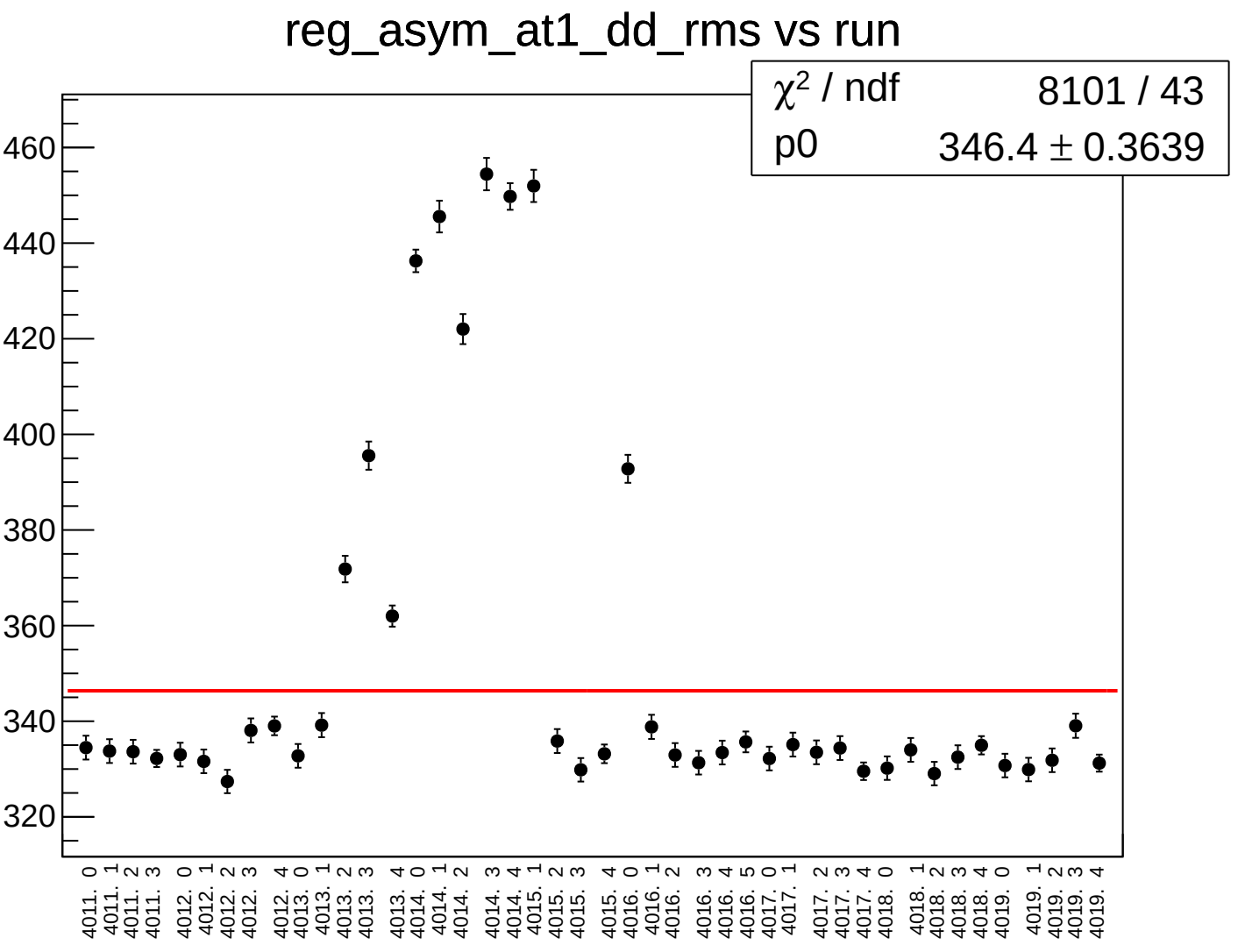

asym_at1_avg_correction_rms vs run
χ^2 / ndf 9.221e+04 / 43
p0 254 ± 0.2802
450
400
350
300
250
200
150
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

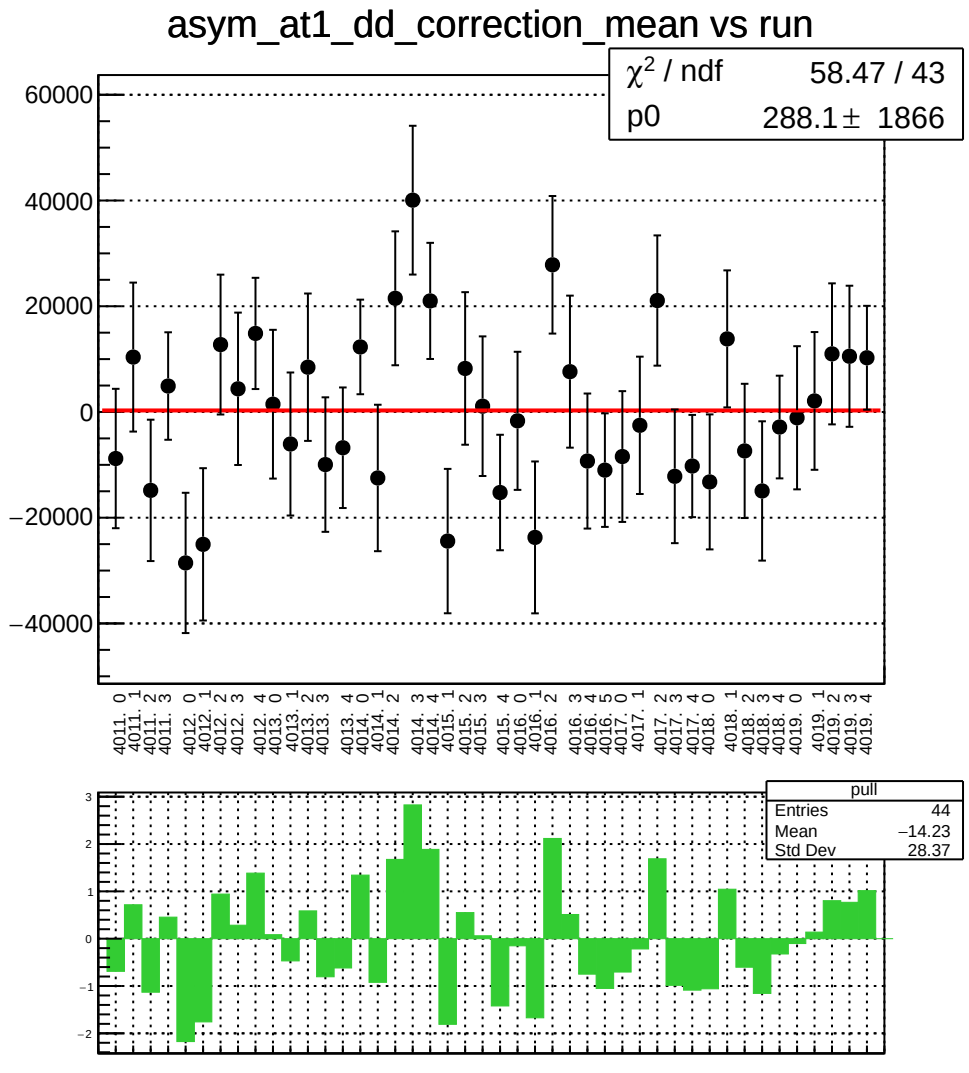

asym_at1_avg_mean vs run
χ² / ndf 58.66 / 43
p0 517.6 ± 661
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 39.79
Std Dev 27.7
2
1
0
−1
−2
−3

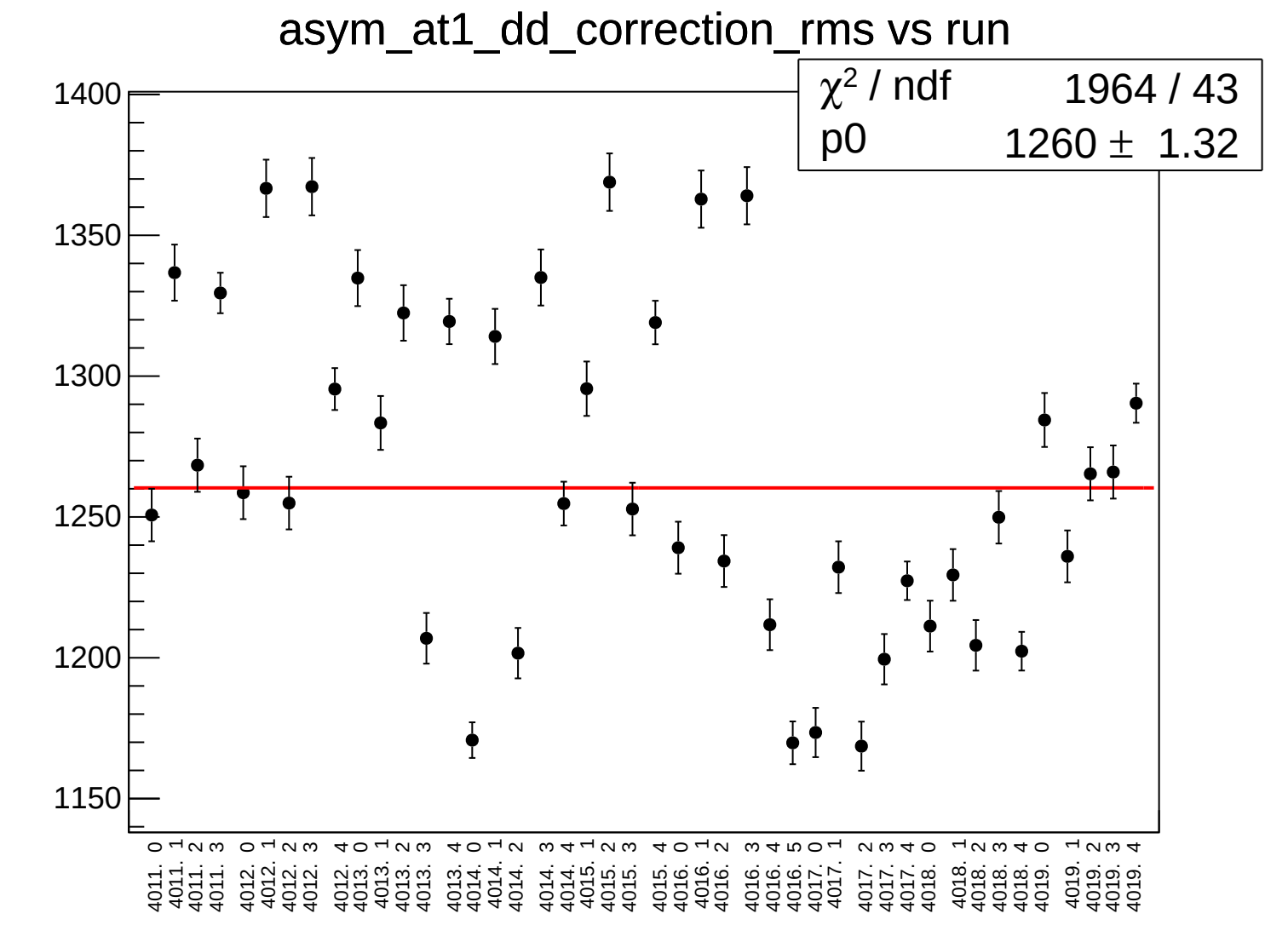

pull1D
Entries 44
Mean −0.02791
Std Dev 1.154
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

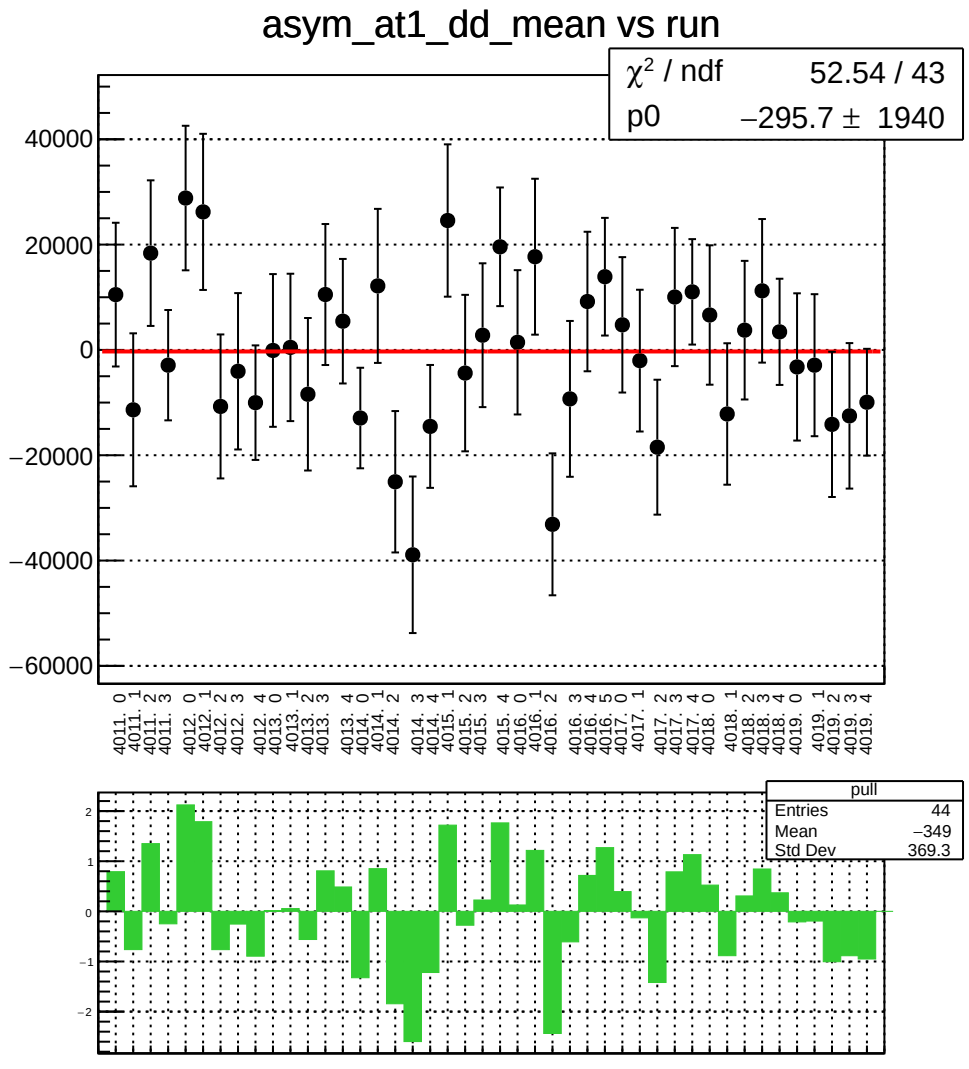

asym_at1_avg_rms vs run
χ² / ndf 1.331e+04 / 43
p0 443.6 ± 0.4674
550
500
450
400
350
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

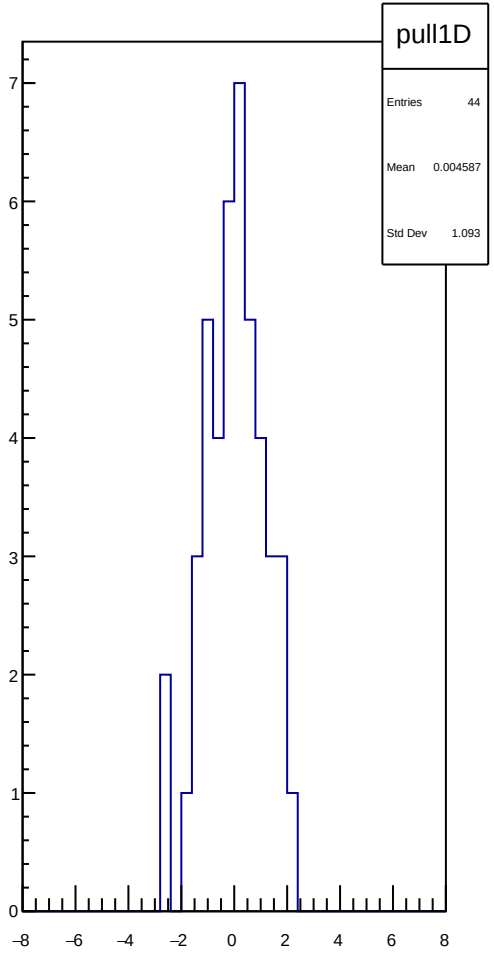

reg_asym_at1_dd_mean vs run
χ² / ndf 35.43 / 43
p0 −98.33 ± 514.7
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 144
Std Dev 121.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean −0.03432
Std Dev 0.8967
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

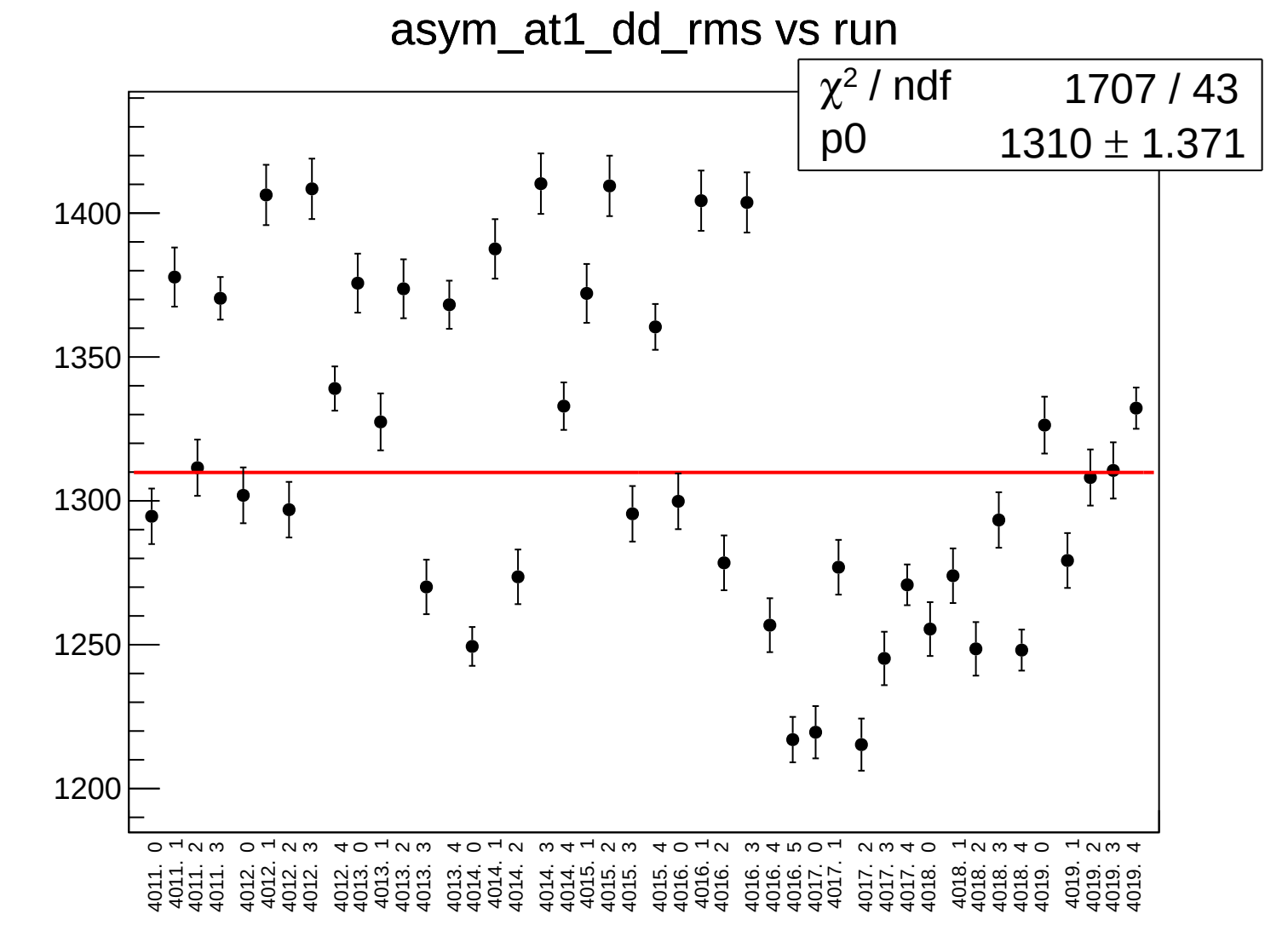

reg_asym_at1_dd_rms vs run
χ² / ndf 8101 / 43
p0 346.4 ± 0.3639
460
440
420
400
380
360
340
320
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

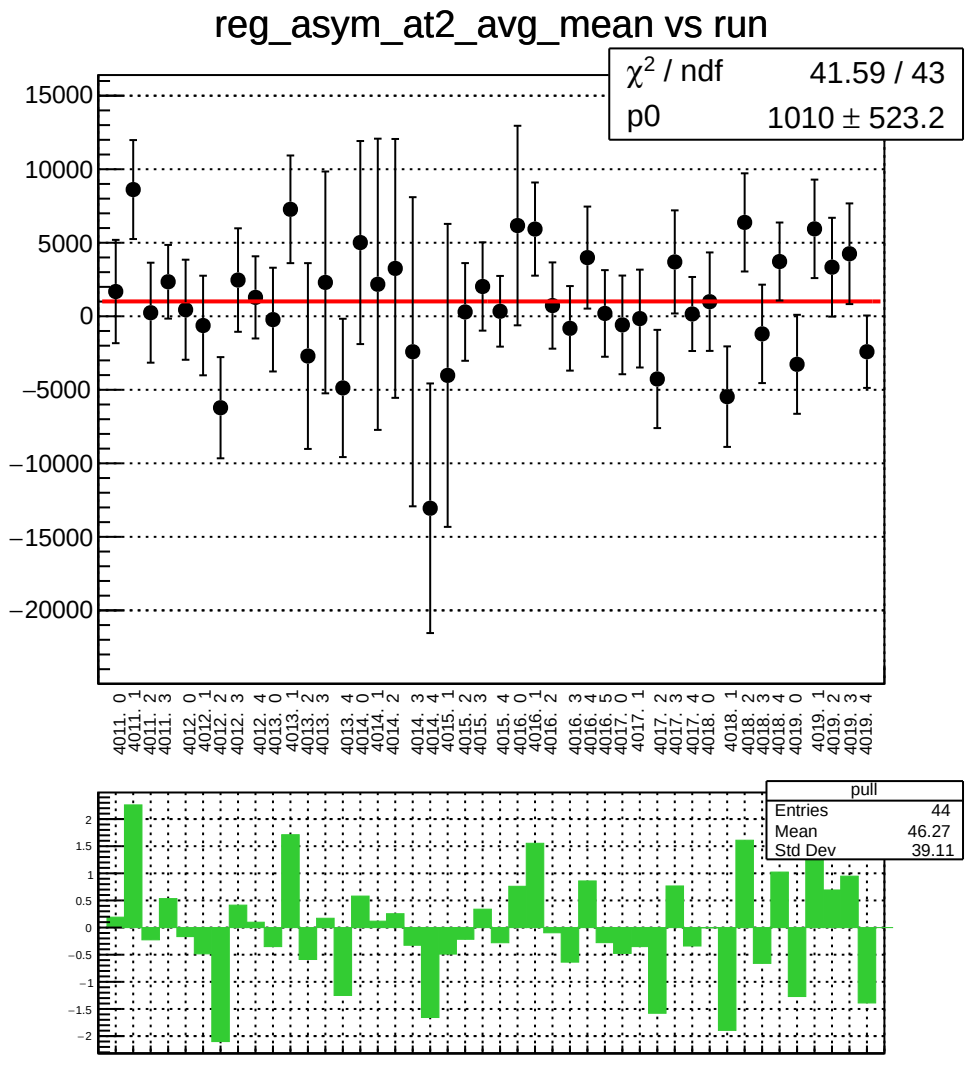

asym_at1_dd_correction_mean vs run
χ² / ndf 58.47 / 43
p0 288.1 ± 1866
60000
40000
20000
0
−20000
−40000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −14.23
Std Dev 28.37
3
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.01764
Std Dev 1.153
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

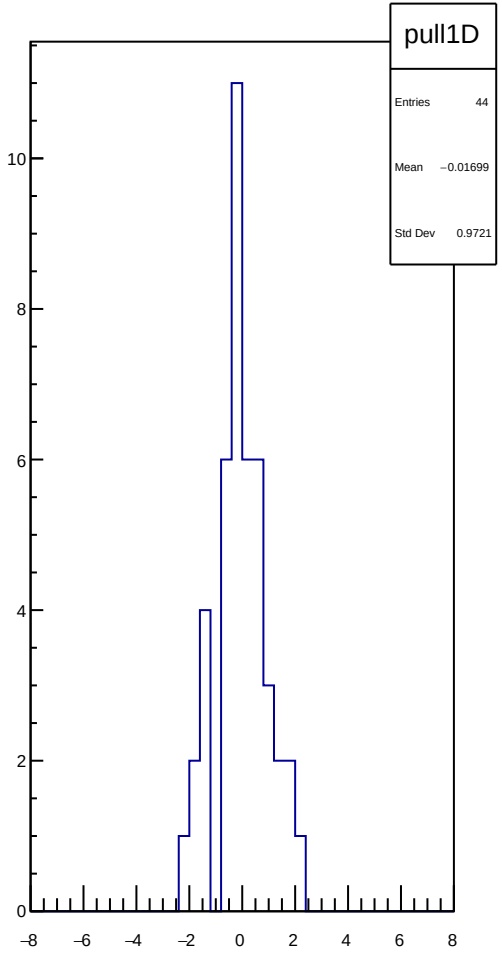

asym_at1_dd_correction_rms vs run
χ² / ndf 1964 / 43
p0 1260 ± 1.32
1400
1350
1300
1250
1200
1150
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

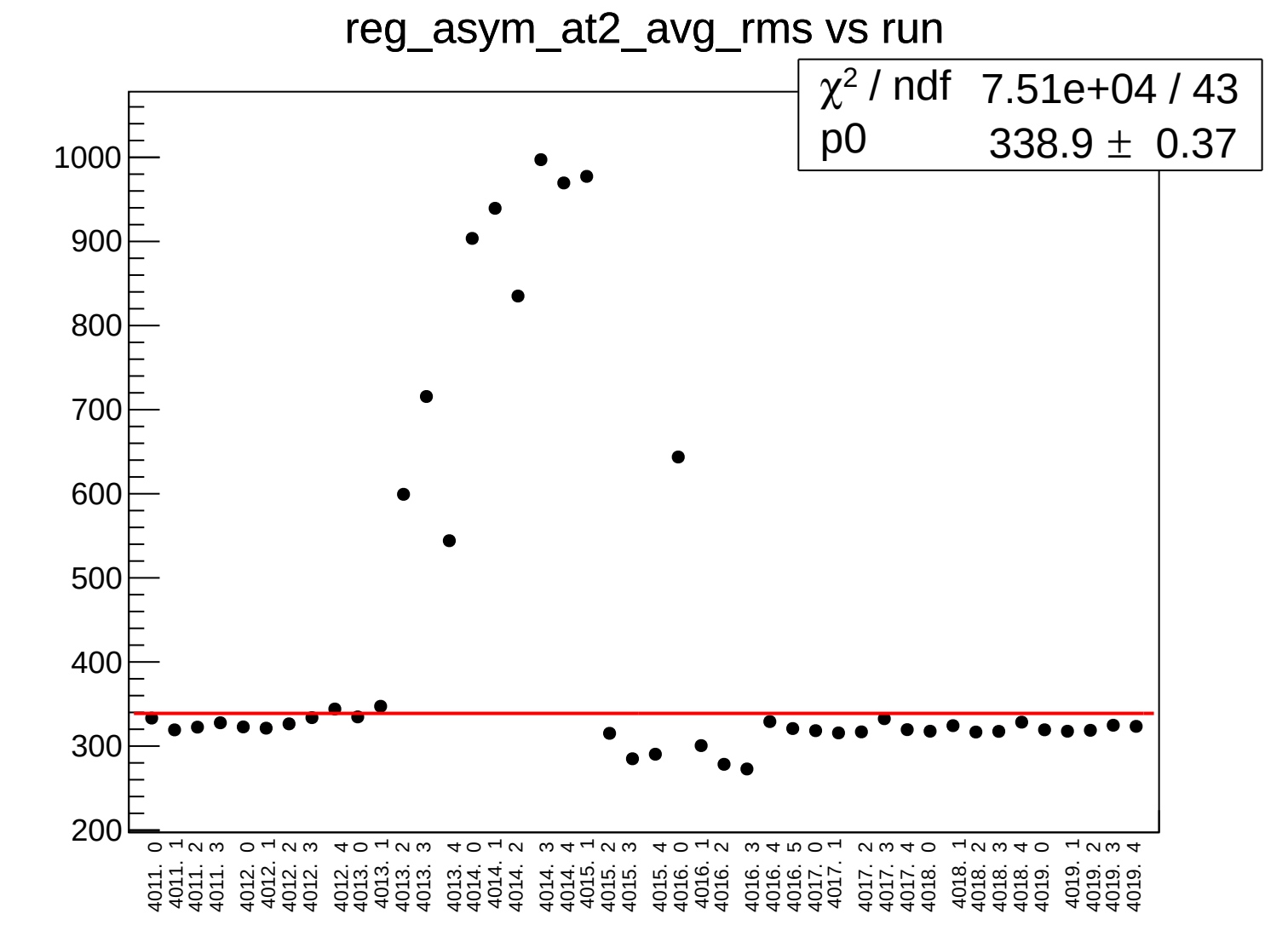

asym_at1_dd_mean vs run
χ² / ndf 52.54 / 43
p0 −295.7 ± 1940
40000
20000
0
−20000
−40000
−60000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −349
Std Dev 369.3
2
1
0
−1
−2

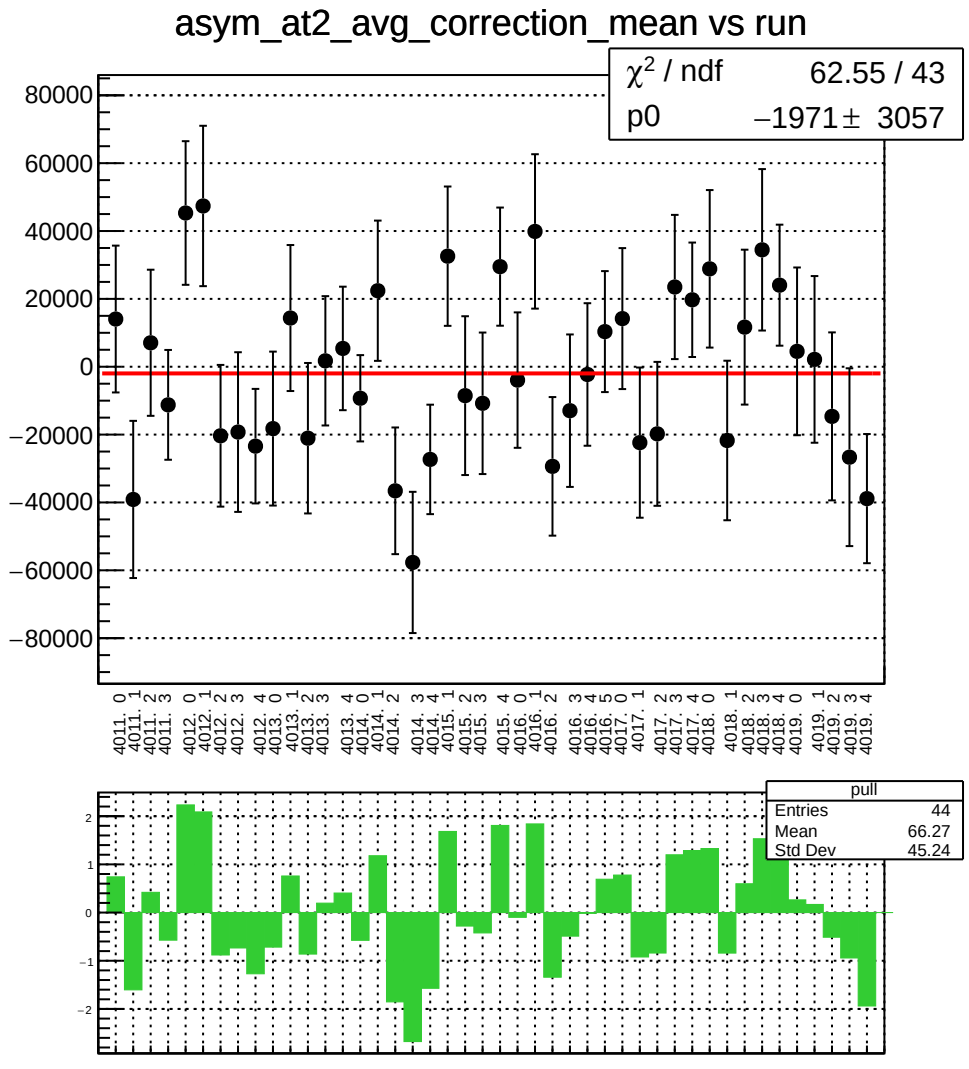

pull1D
Entries 44
Mean 0.004587
Std Dev 1.093
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

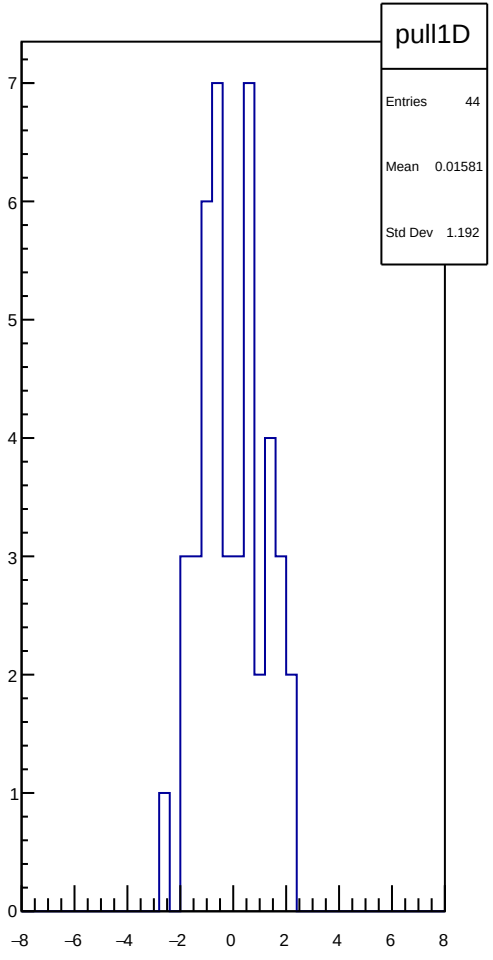

asym_at1_dd_rms vs run
χ² / ndf 1707 / 43
p0 1310 ± 1.371
1400
1350
1300
1250
1200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

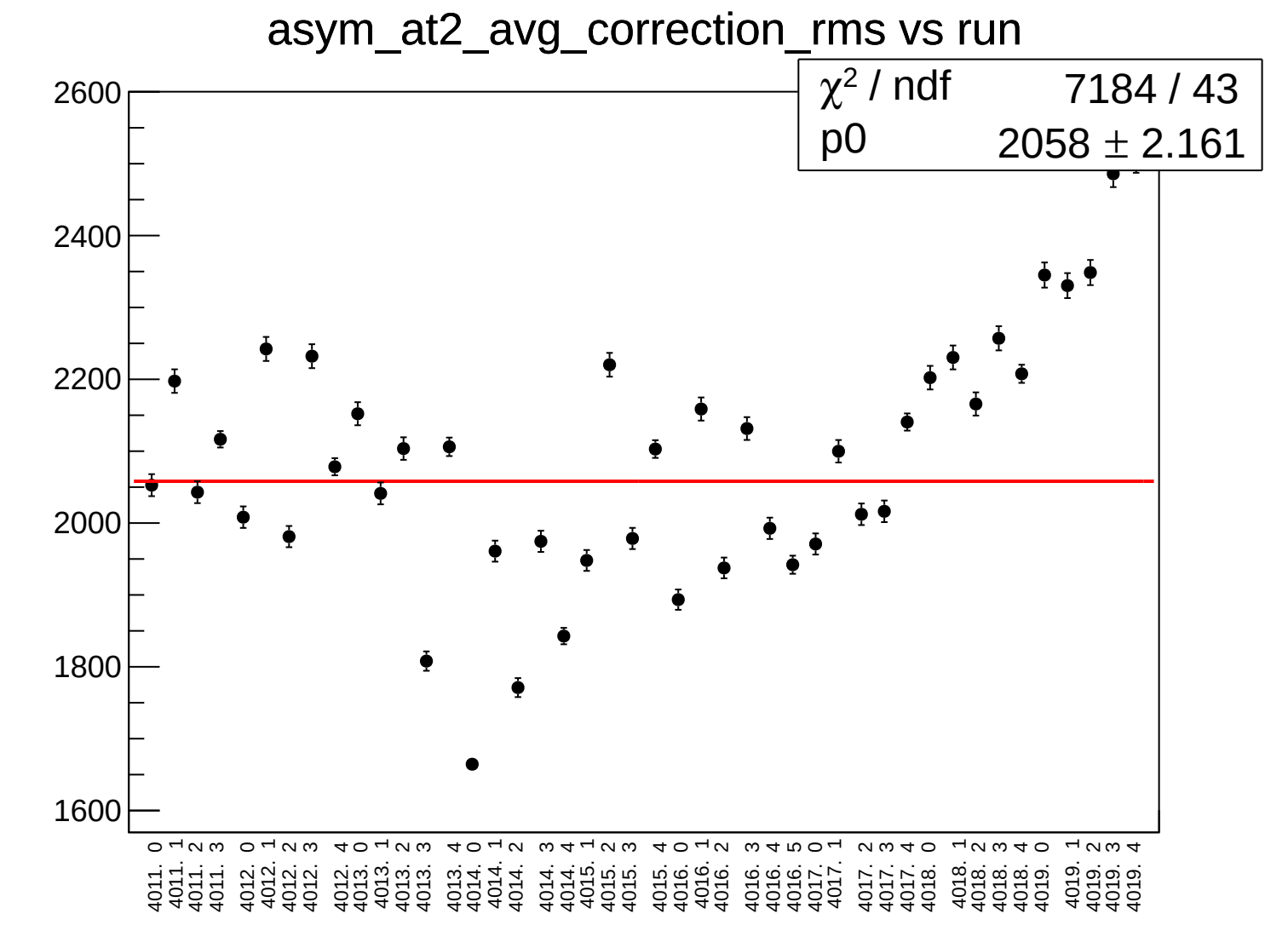

reg_asym_at2_avg_mean vs run
χ² / ndf 41.59 / 43
p0 1010 ± 523.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 46.27
Std Dev 39.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

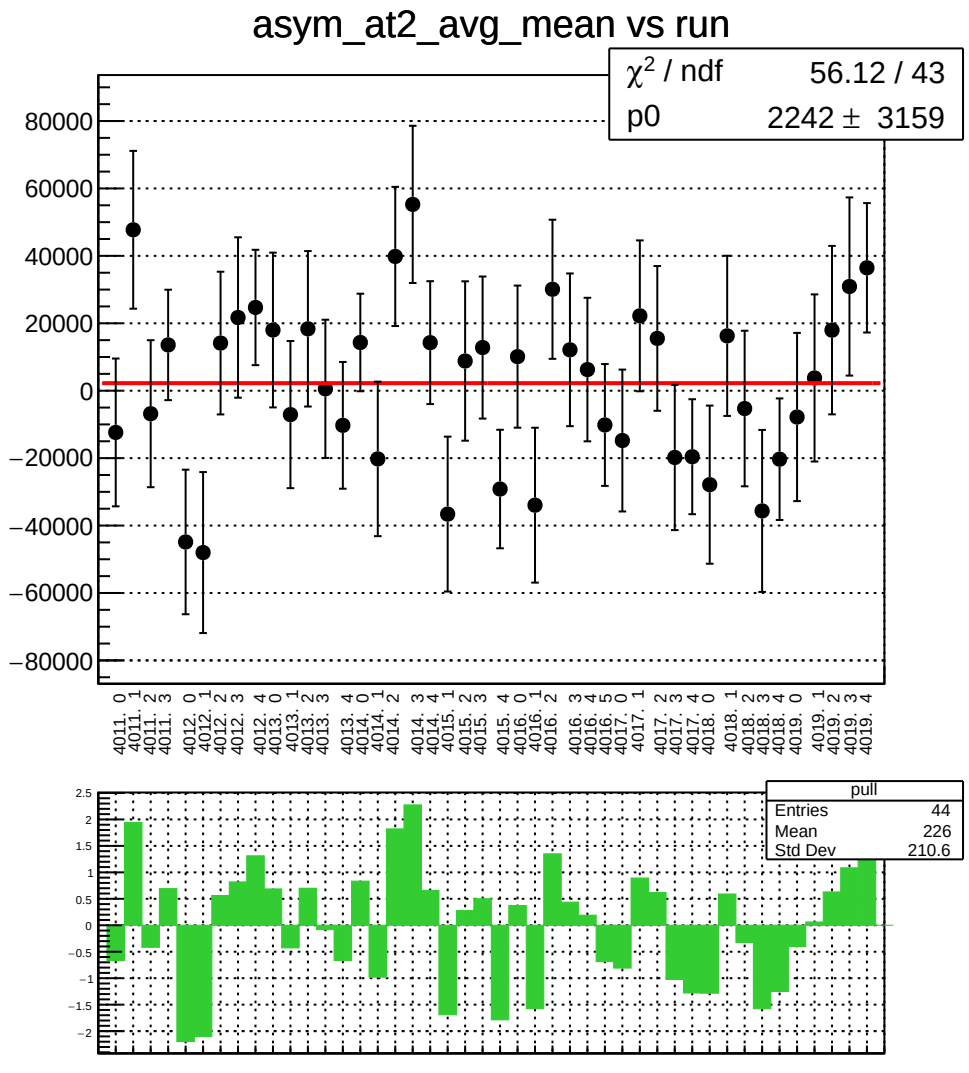

pull1D
Entries 44
Mean −0.01699
Std Dev 0.9721
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

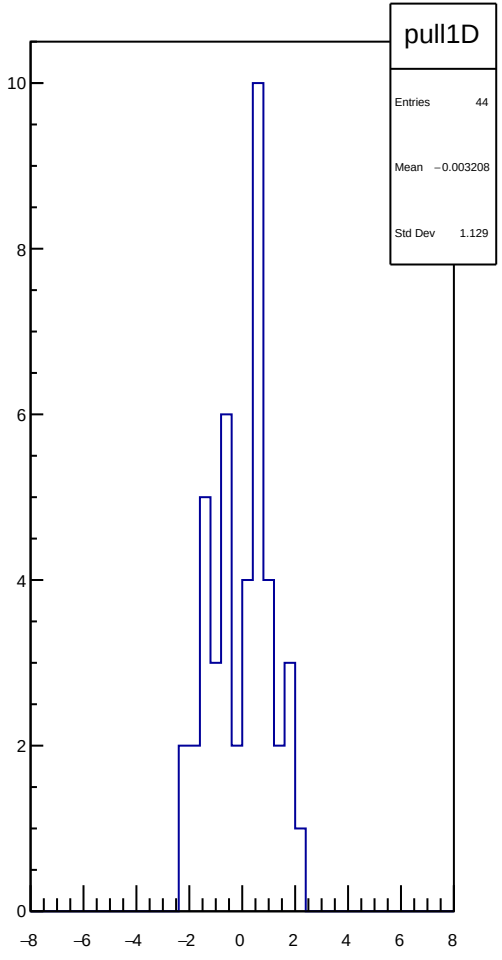

reg_asym_at2_avg_rms vs run
χ² / ndf 7.51e+04 / 43
p0 338.9 ± 0.37
1000
900
800
700
600
500
400
300
200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

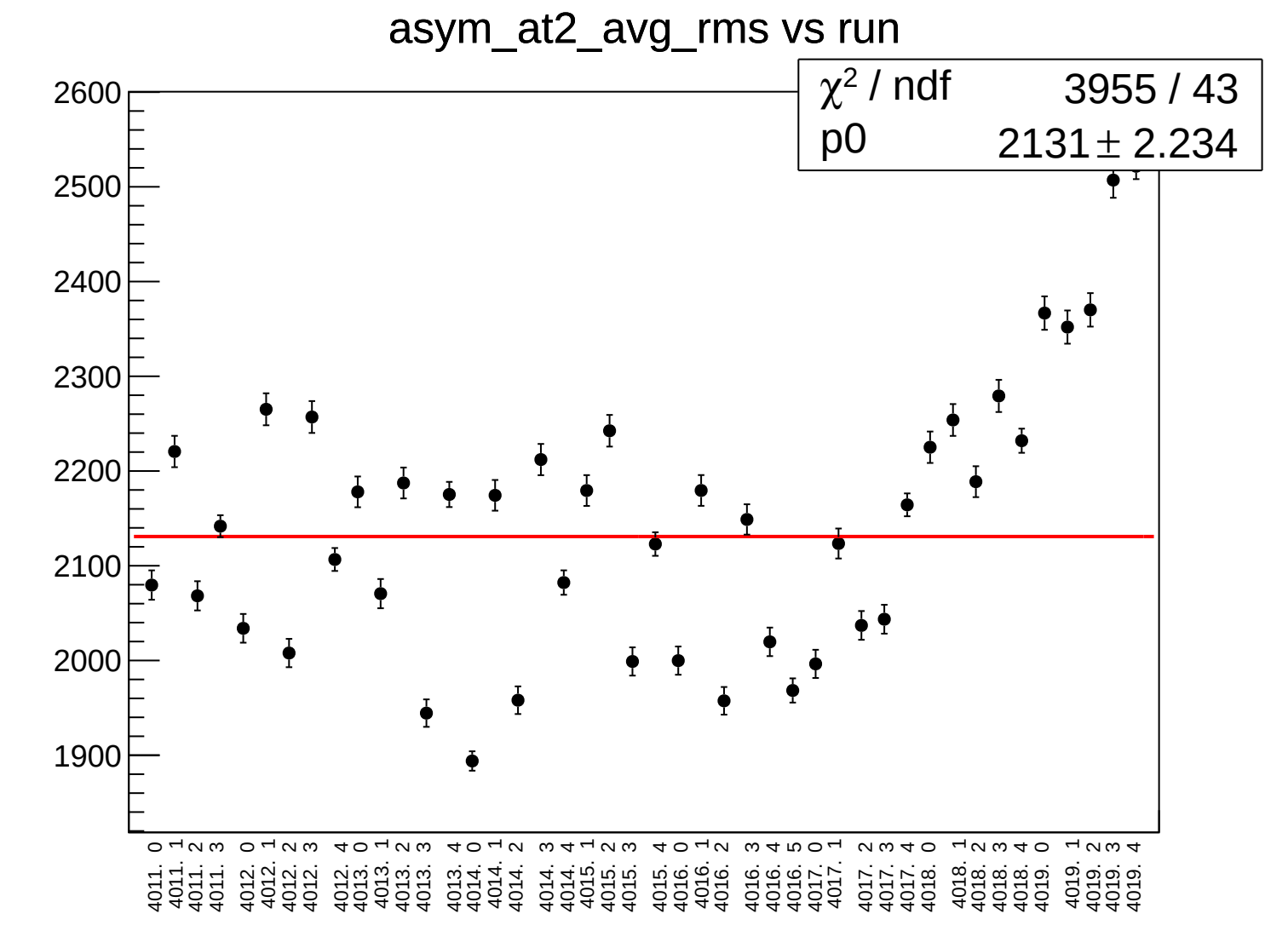

asym_at2_avg_correction_mean vs run
χ² / ndf 62.55 / 43
p0 −1971 ± 3057
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 66.27
Std Dev 45.24
2
1
0
−1
−2

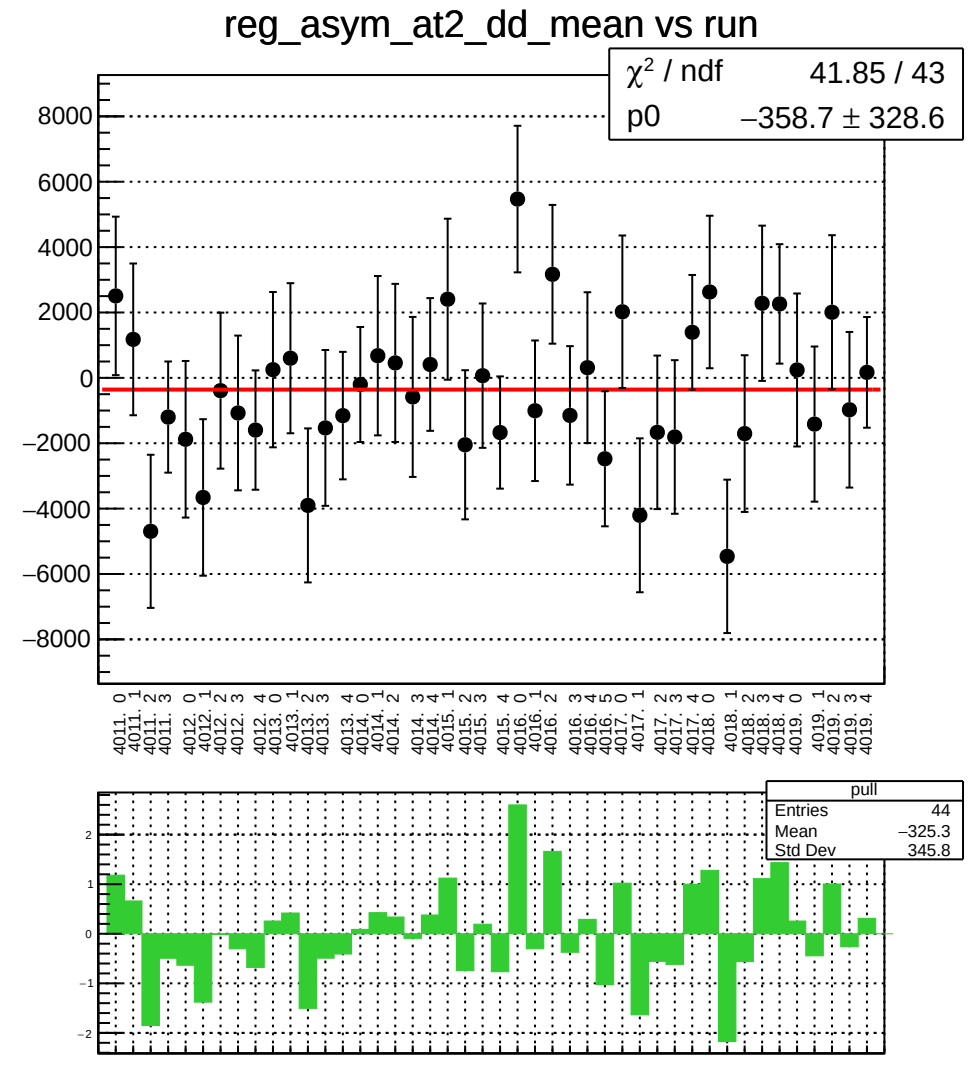

pull1D
Entries 44
Mean 0.01581
Std Dev 1.192
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

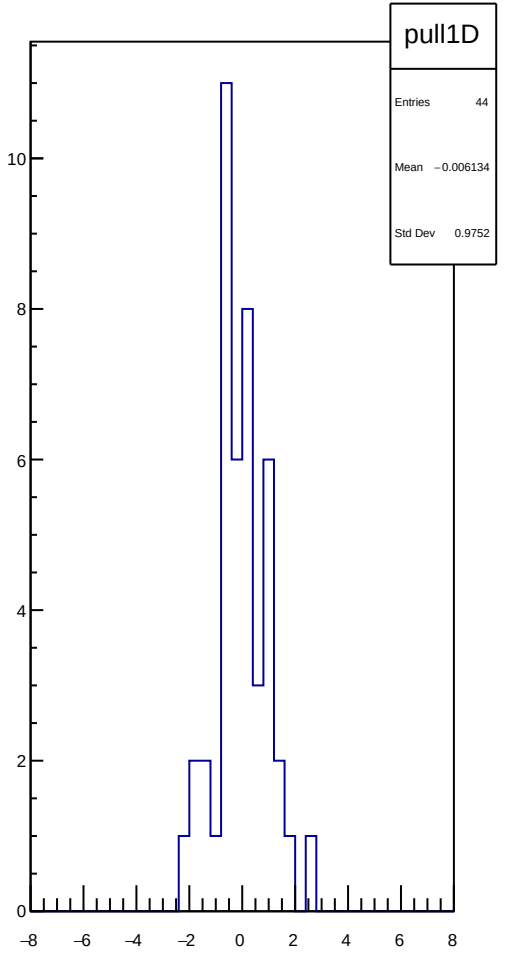

asym_at2_avg_correction_rms vs run
χ² / ndf 7184 / 43
p0 2058 ± 2.161
2600
2400
2200
2000
1800
1600
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

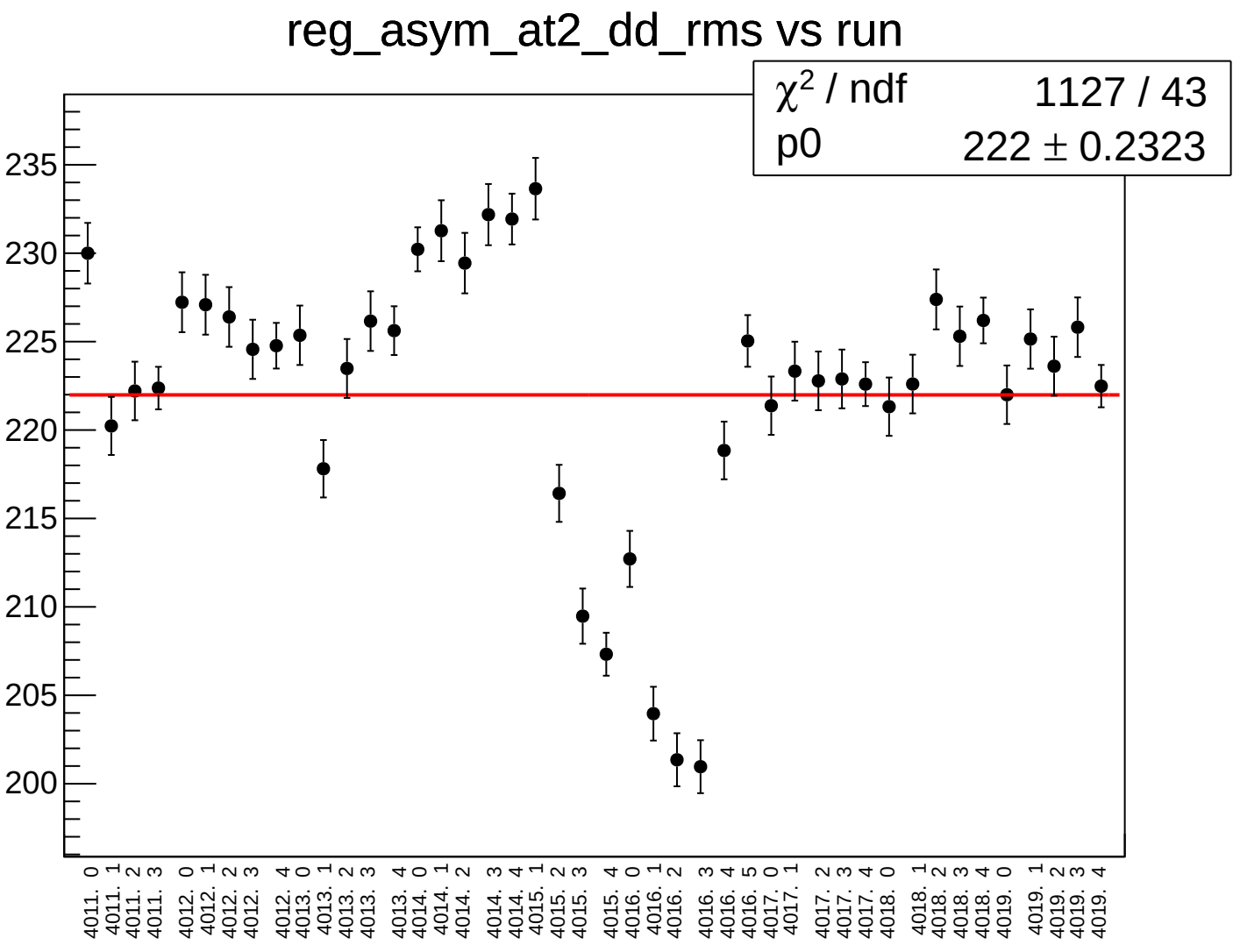

asym_at2_avg_mean vs run
χ² / ndf 56.12 / 43
p0 2242 ± 3159
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 226
Std Dev 210.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

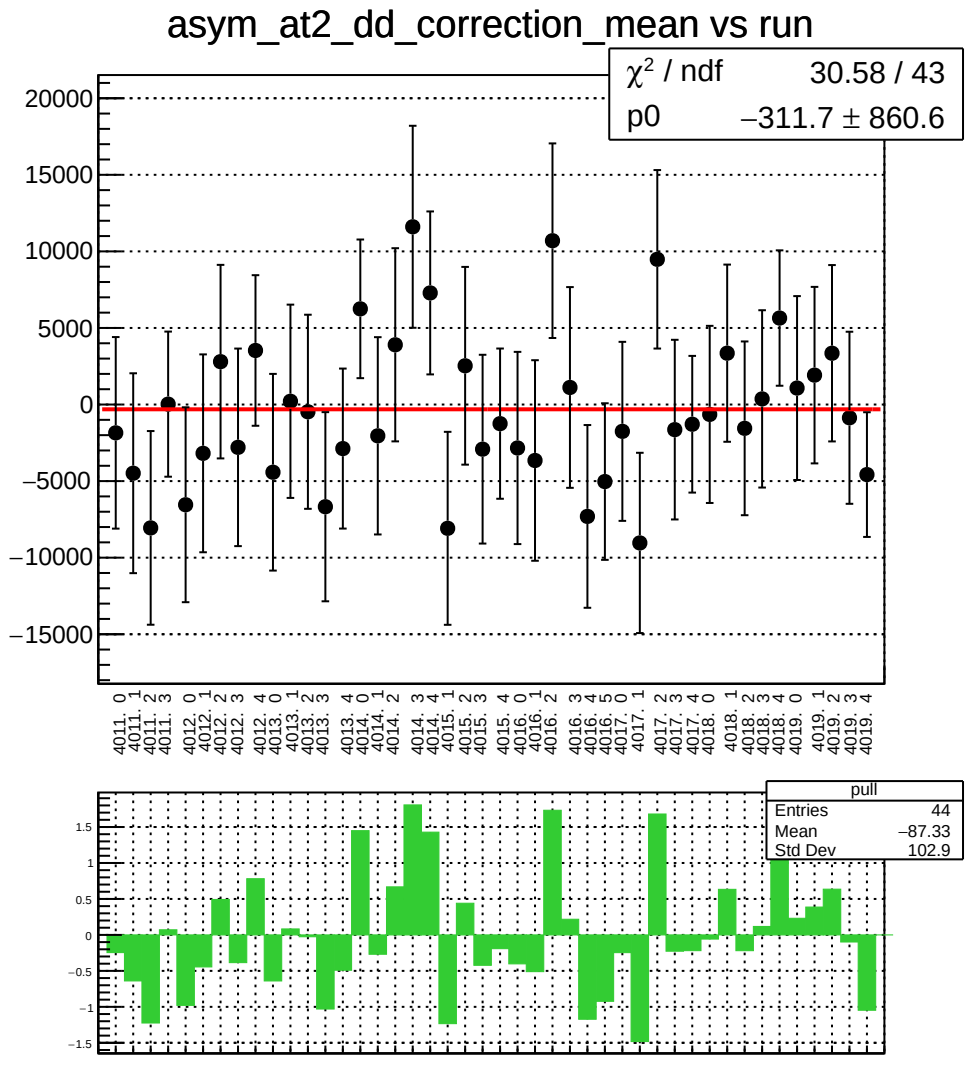

pull1D
Entries 44
Mean −0.003208
Std Dev 1.129
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

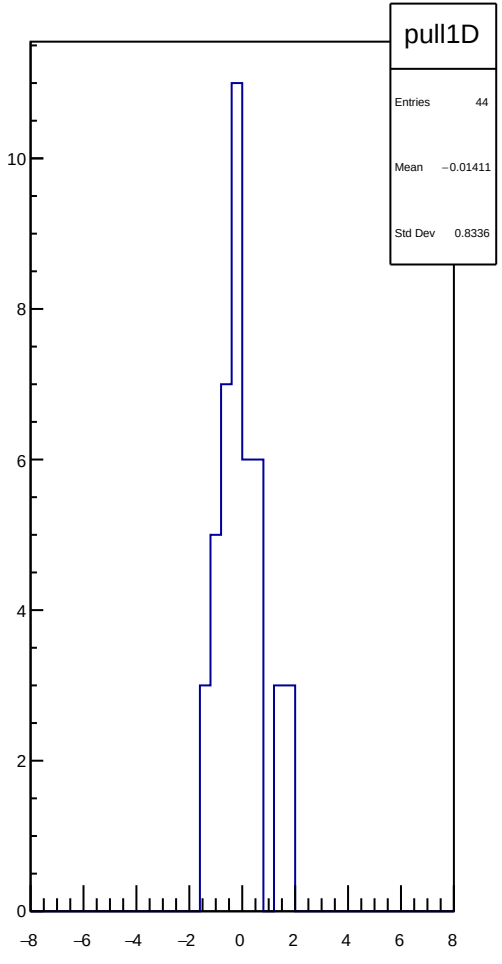

asym_at2_avg_rms vs run
χ² / ndf 3955 / 43
p0 2131 ± 2.234
2600
2500
2400
2300
2200
2100
2000
1900
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

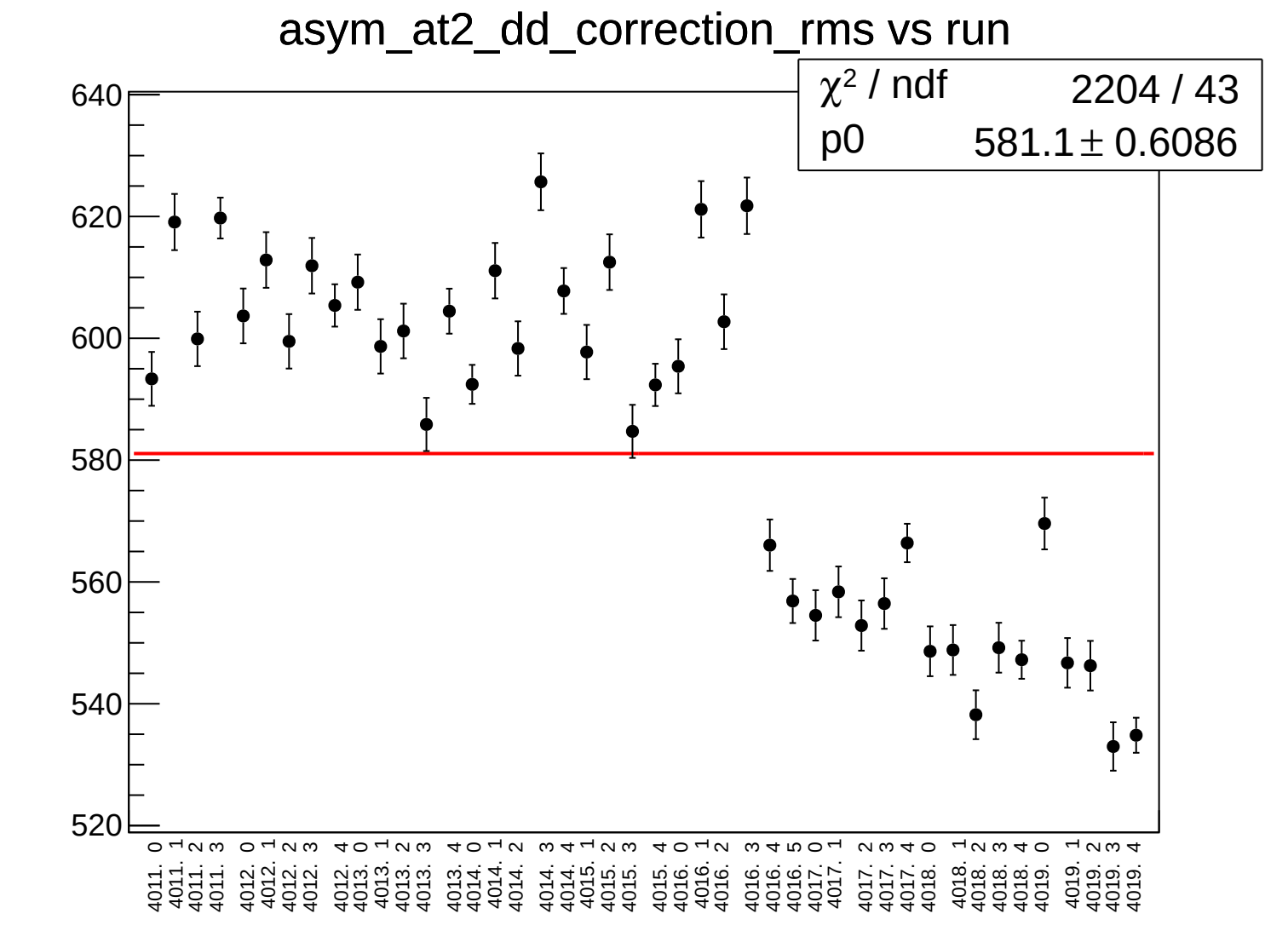

reg_asym_at2_dd_mean vs run
χ² / ndf 41.85 / 43
p0 −358.7 ± 328.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −325.3
Std Dev 345.8
2
1
0
−1
−2

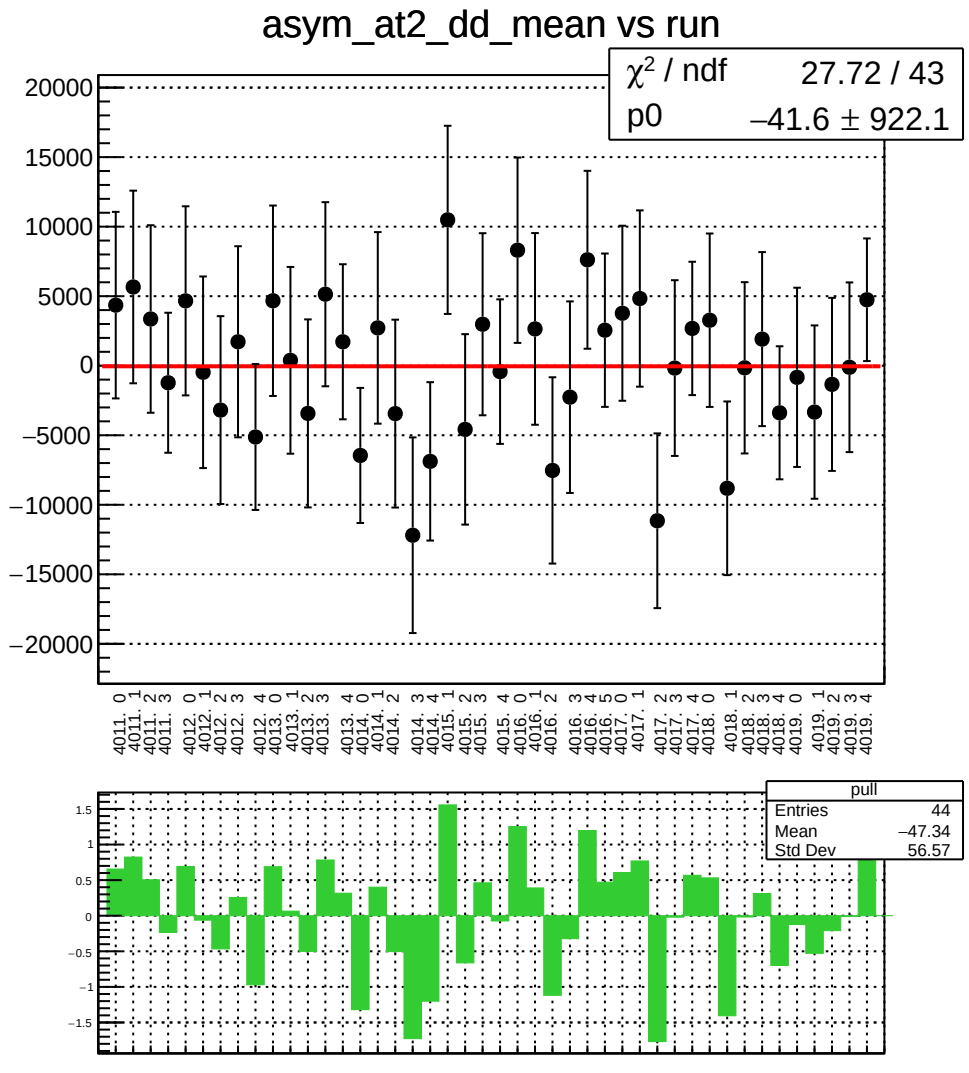

pull1D
Entries 44
Mean −0.006134
Std Dev 0.9752
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

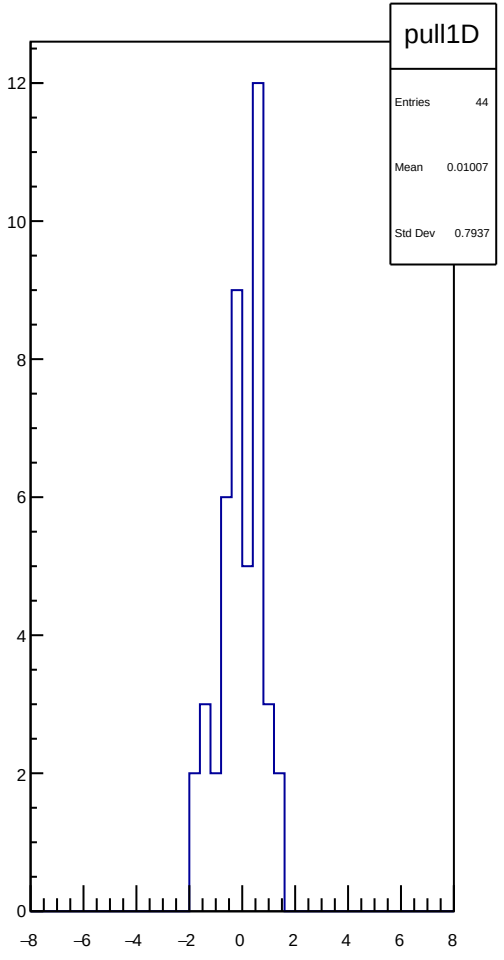

reg_asym_at2_dd_rms vs run
χ² / ndf 1127 / 43
p0 222 ± 0.2323
235
230
225
220
215
210
205
200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

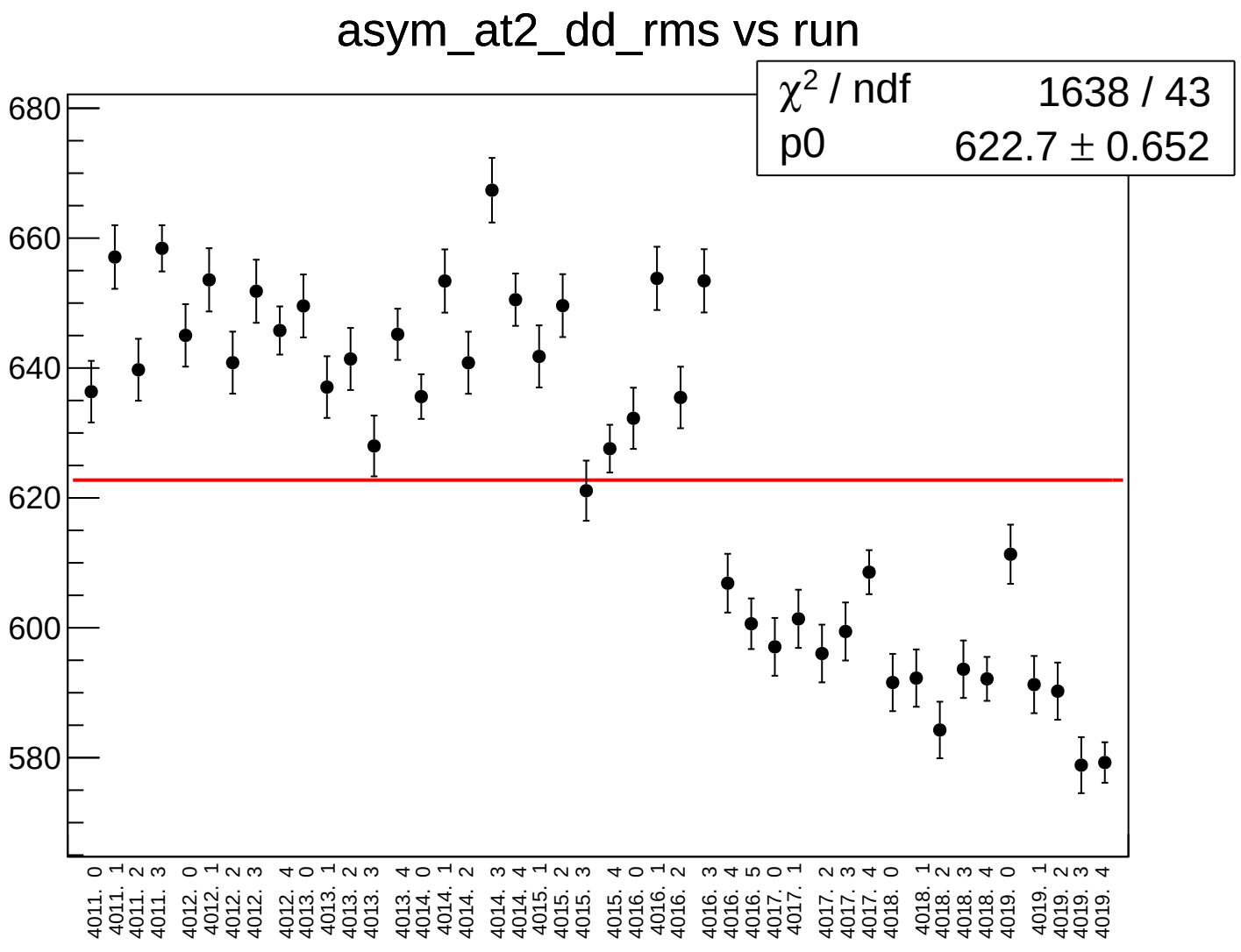

asym_at2_dd_correction_mean vs run
χ² / ndf 30.58 / 43
p0 −311.7 ± 860.6
20000
15000
10000
5000
0
−5000
−10000
−15000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −87.33
Std Dev 102.9
1.5
1
0.5
0
−0.5
−1
−1.5

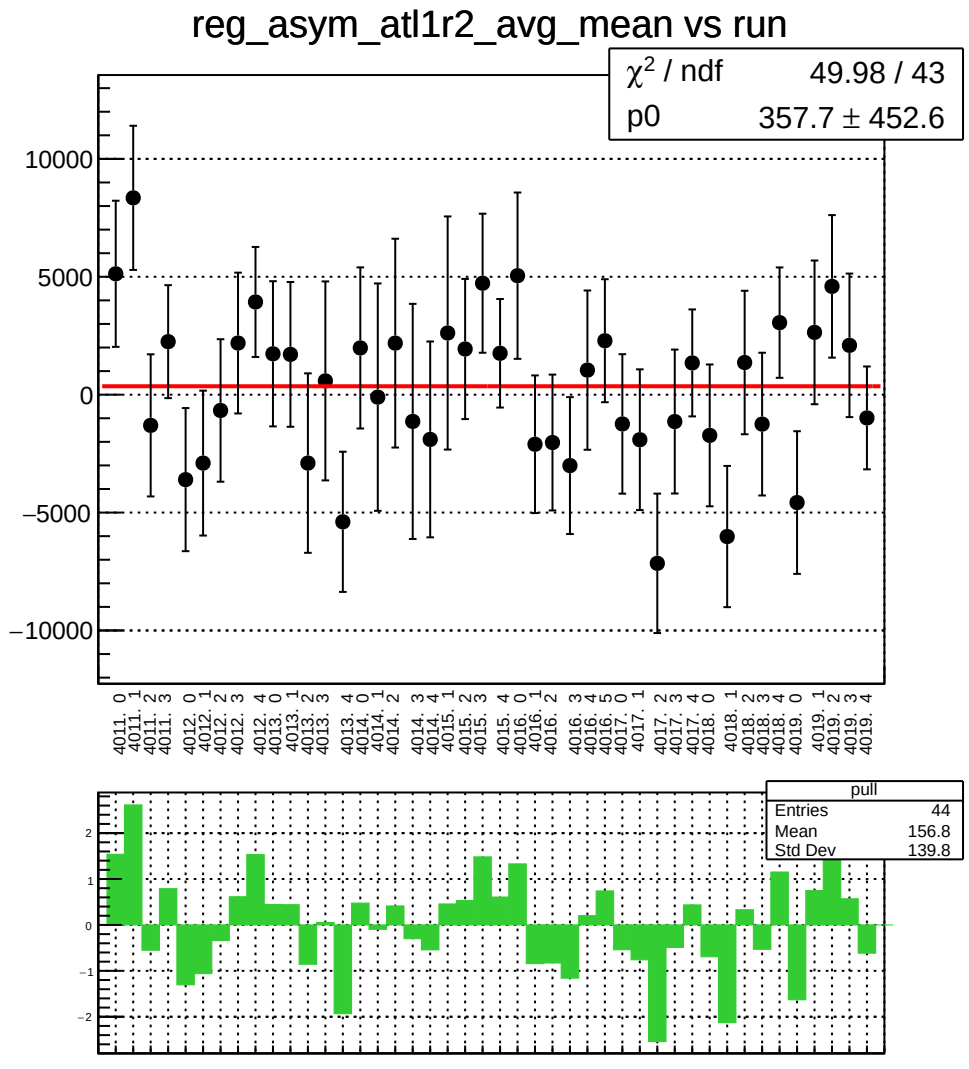

pull1D
Entries 44
Mean −0.01411
Std Dev 0.8336
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

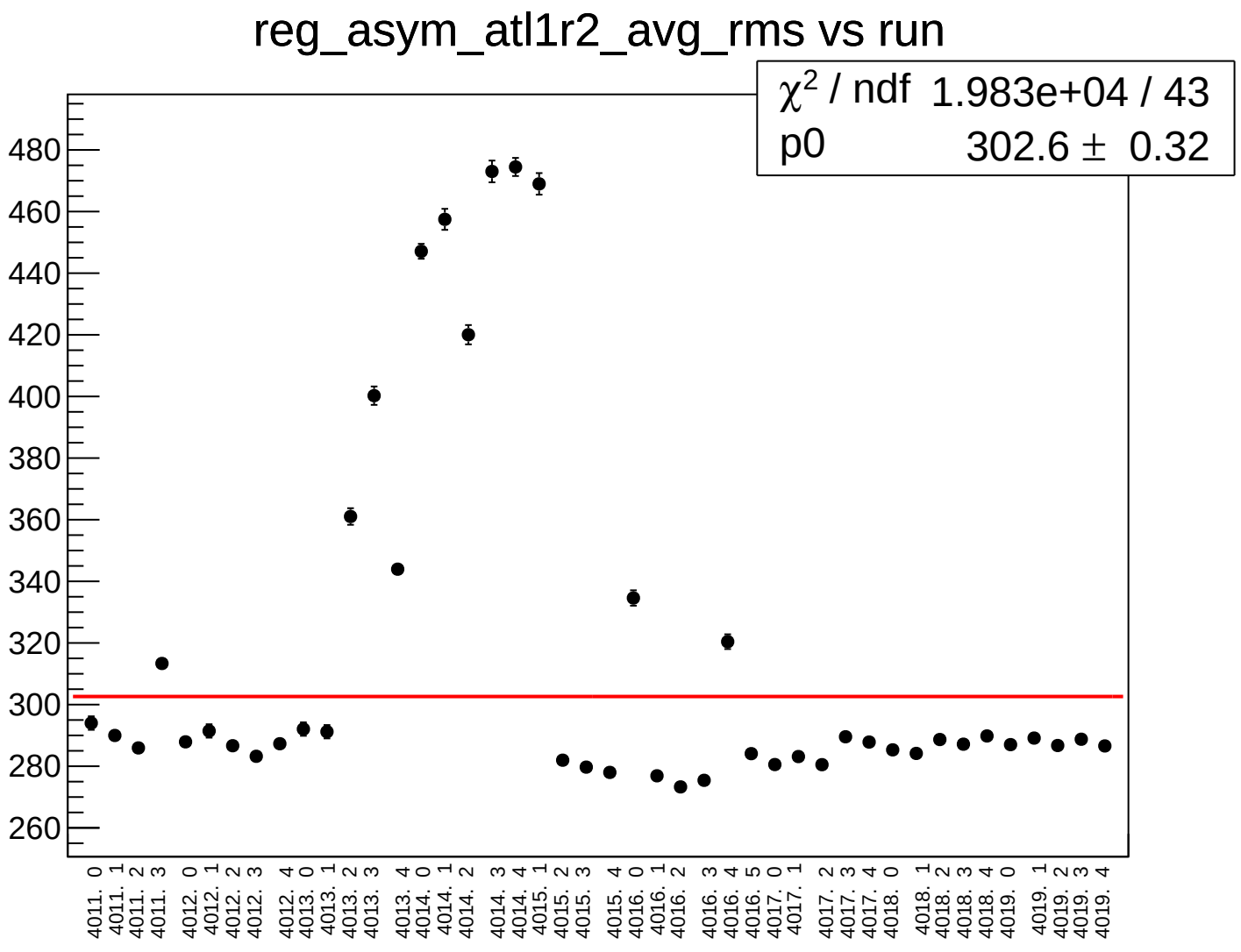

asym_at2_dd_correction_rms vs run
χ² / ndf 2204 / 43
p0 581.1 ± 0.6086
640
620
600
580
560
540
520
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

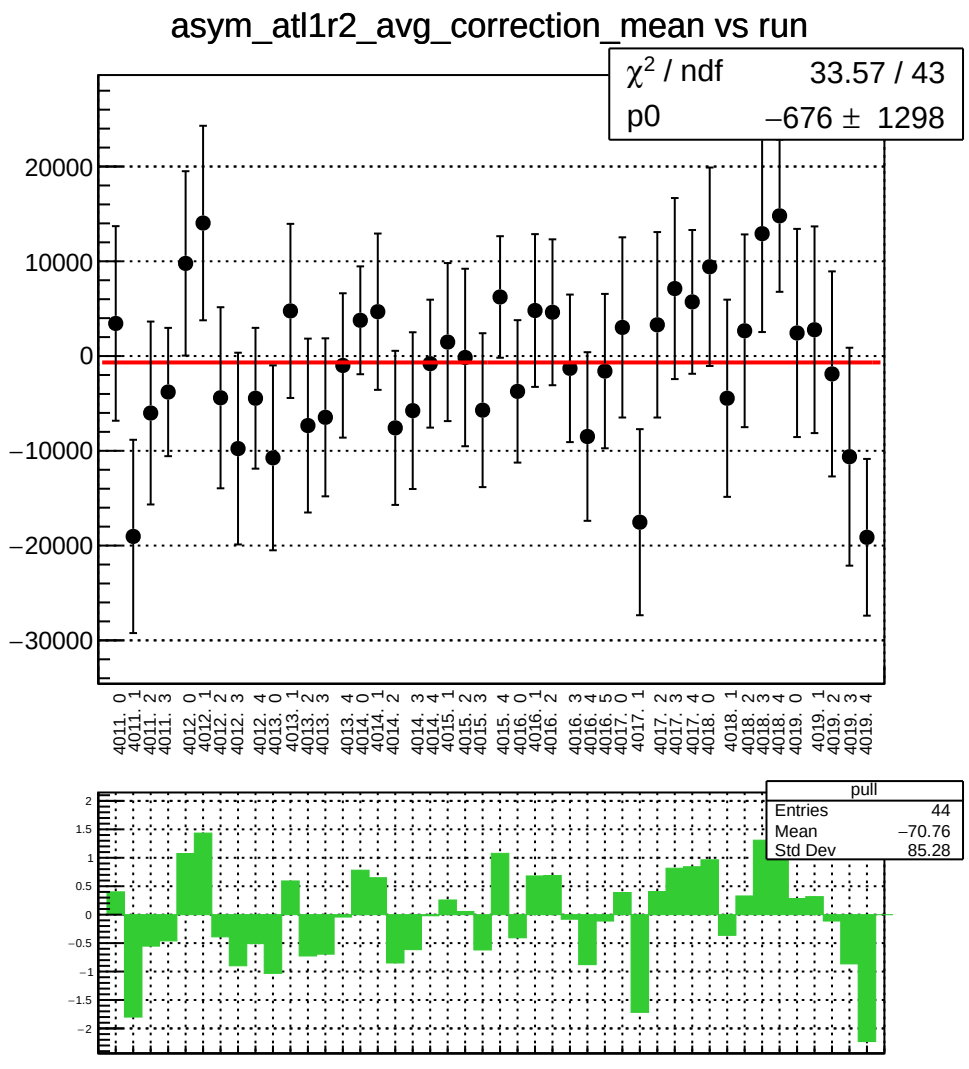

asym_at2_dd_mean vs run
χ² / ndf 27.72 / 43
p0 −41.6 ± 922.1
pull
Entries 44
Mean −47.34
Std Dev 56.57

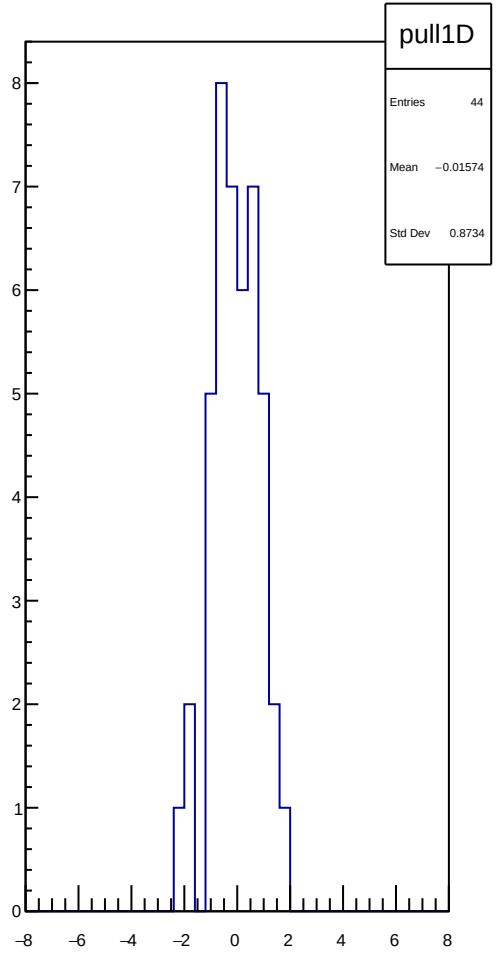

pull1D
Entries 44
Mean 0.01007
Std Dev 0.7937

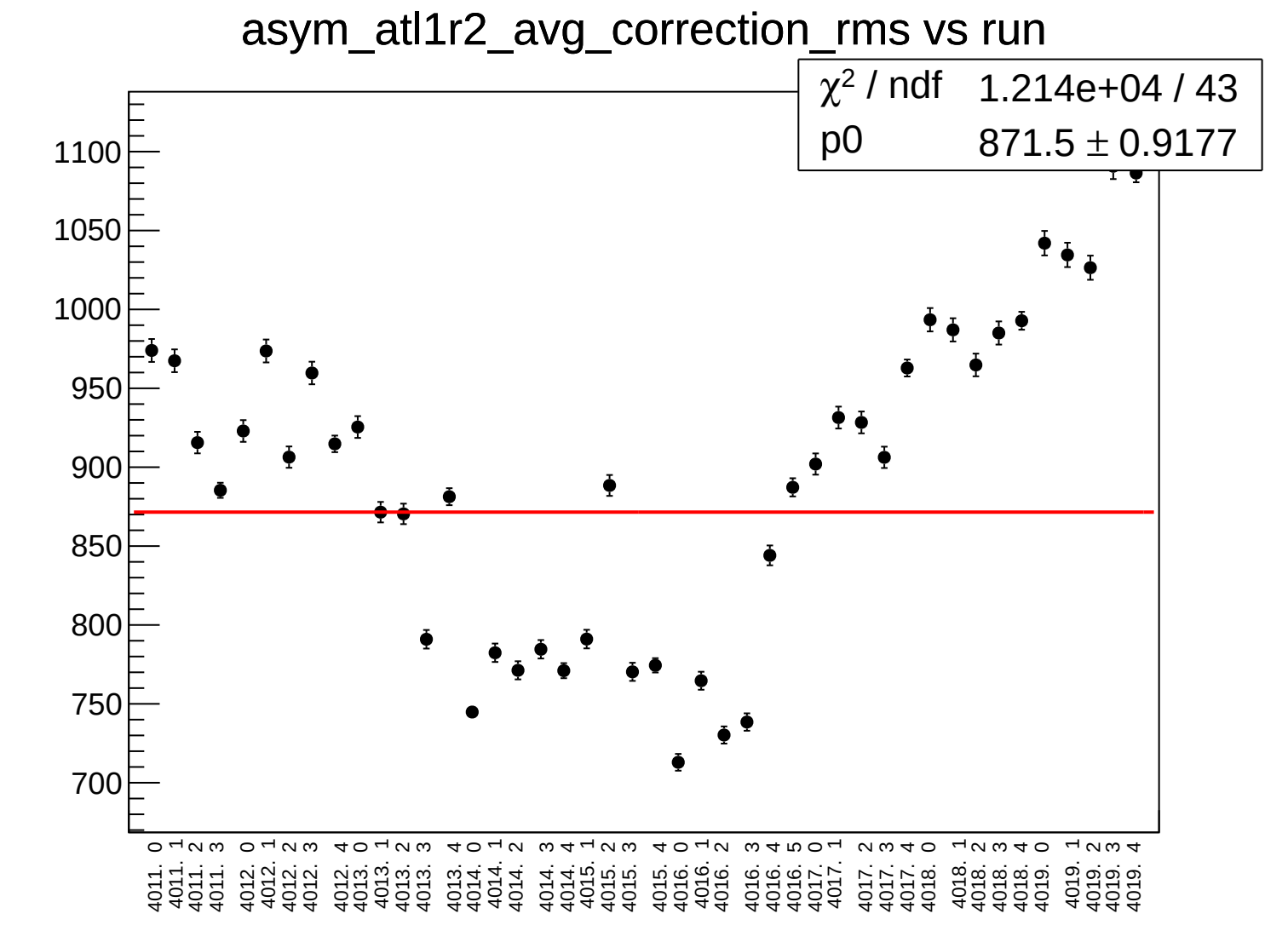

asym_at2_dd_rms vs run
χ² / ndf 1638 / 43
p0 622.7 ± 0.652
680
660
640
620
600
580
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

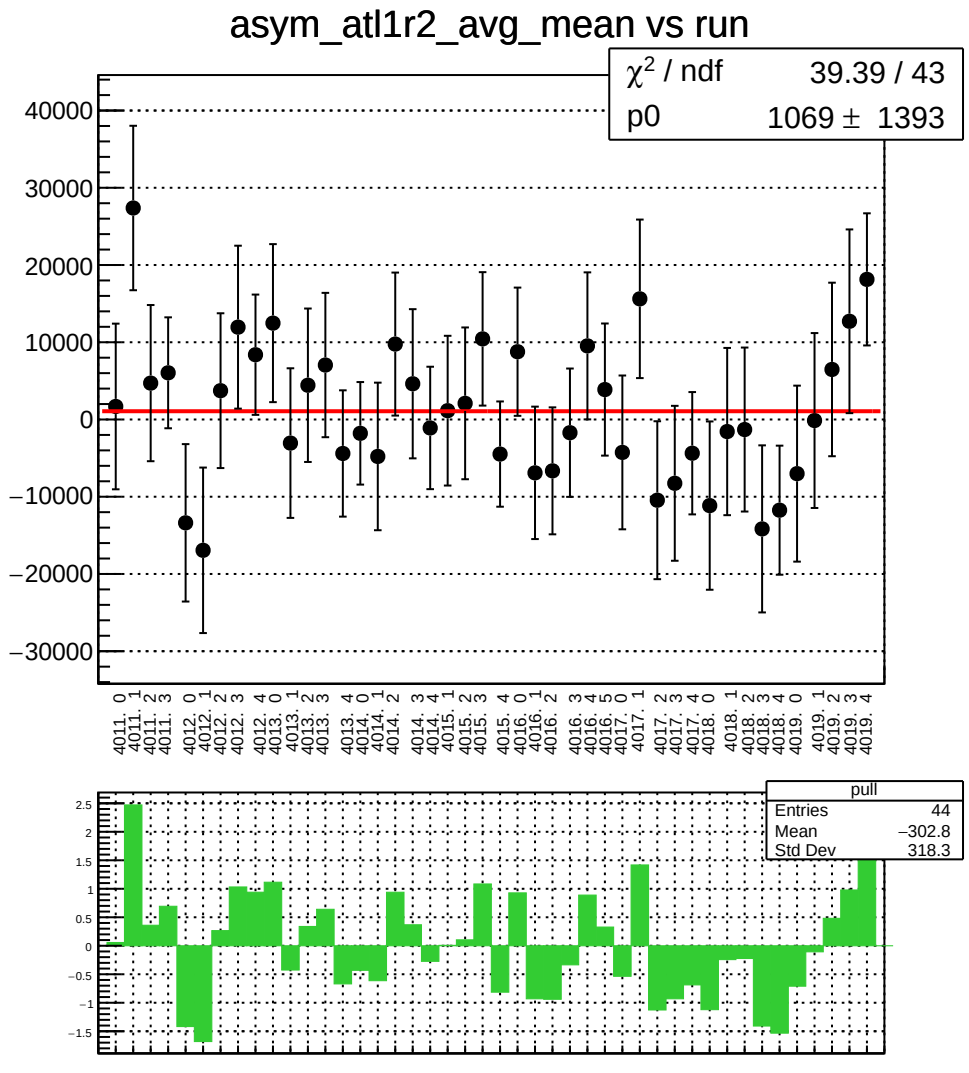

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 49.98 / 43
p0 357.7 ± 452.6
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 156.8
Std Dev 139.8
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.01894
Std Dev 1.066
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

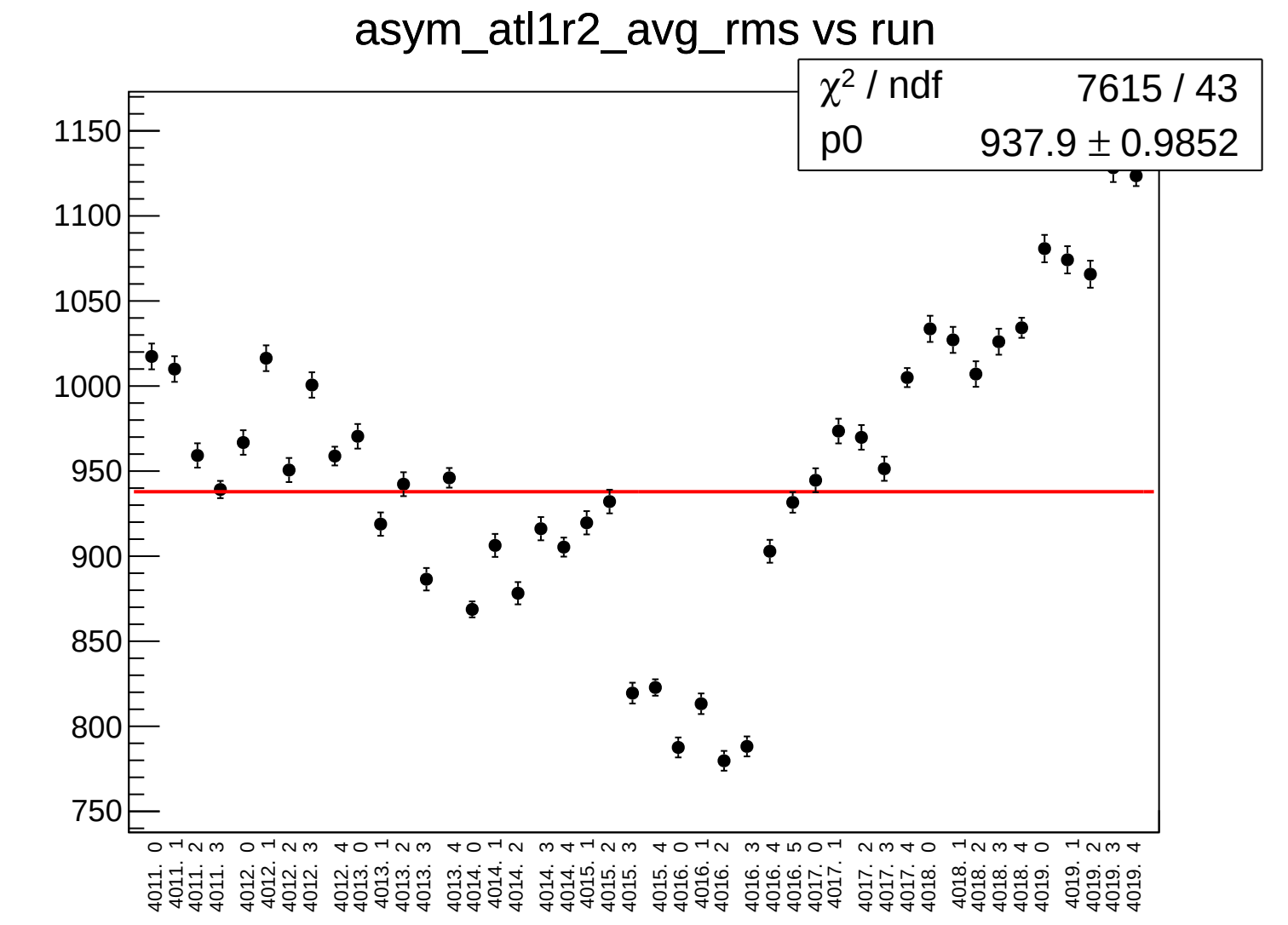

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 1.983e+04 / 43
p0 302.6 ± 0.32
480
460
440
420
400
380
360
340
320
300
280
260
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

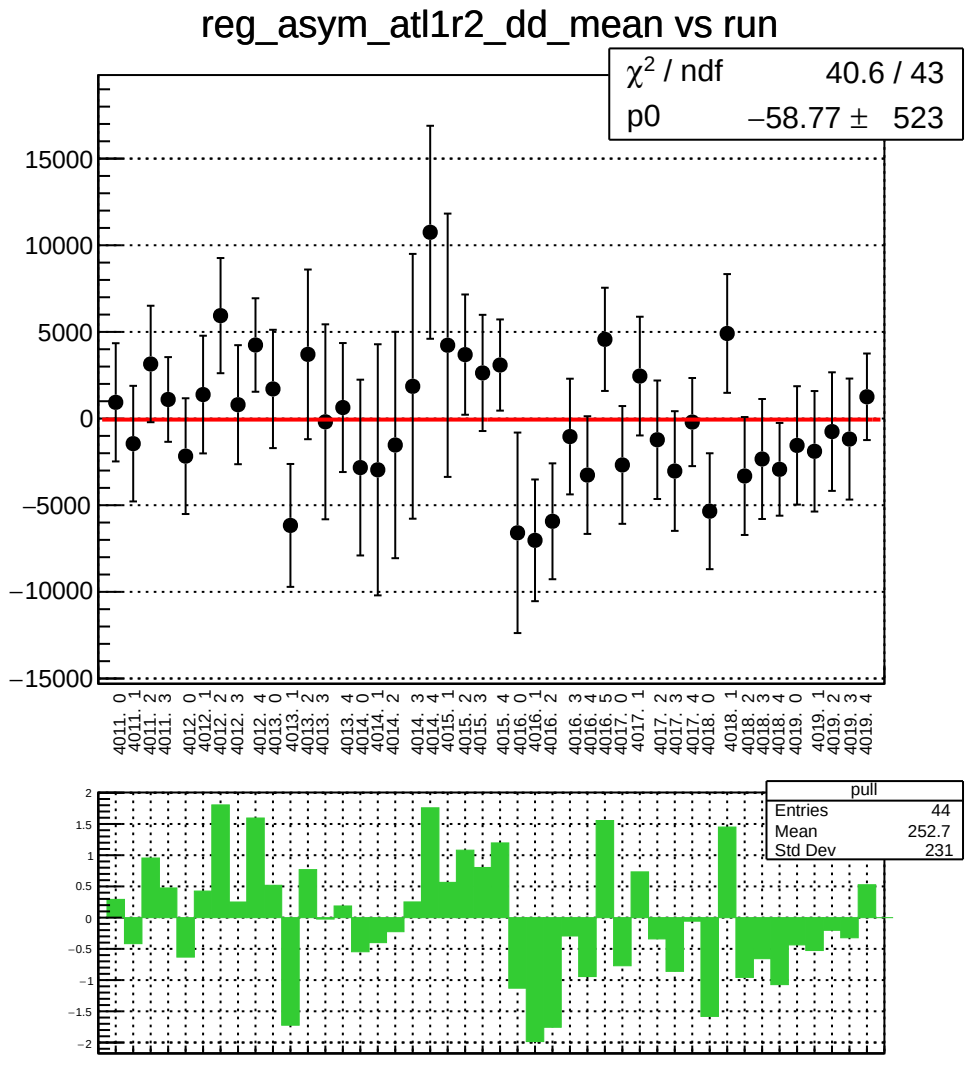

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 33.57 / 43
p0 −676 ± 1298
20000
10000
0
−10000
−20000
−30000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −70.76
Std Dev 85.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

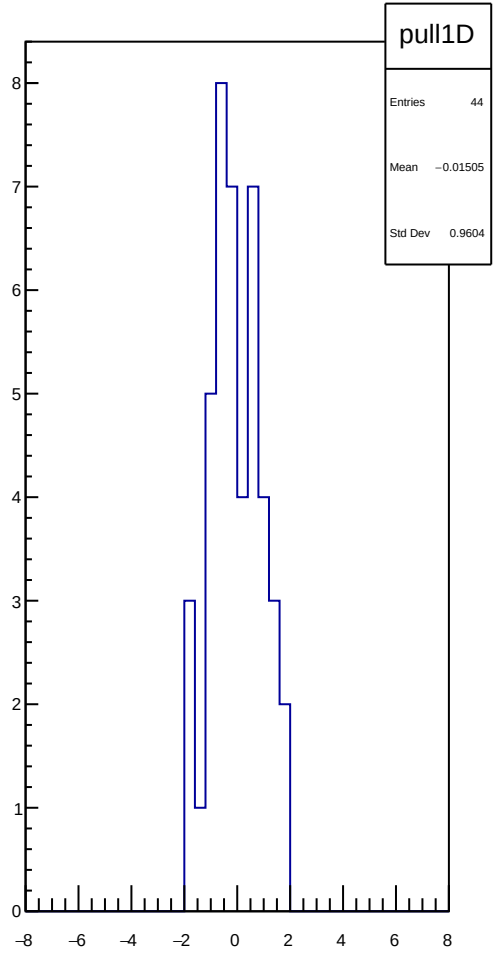

pull1D
Entries 44
Mean −0.01574
Std Dev 0.8734
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

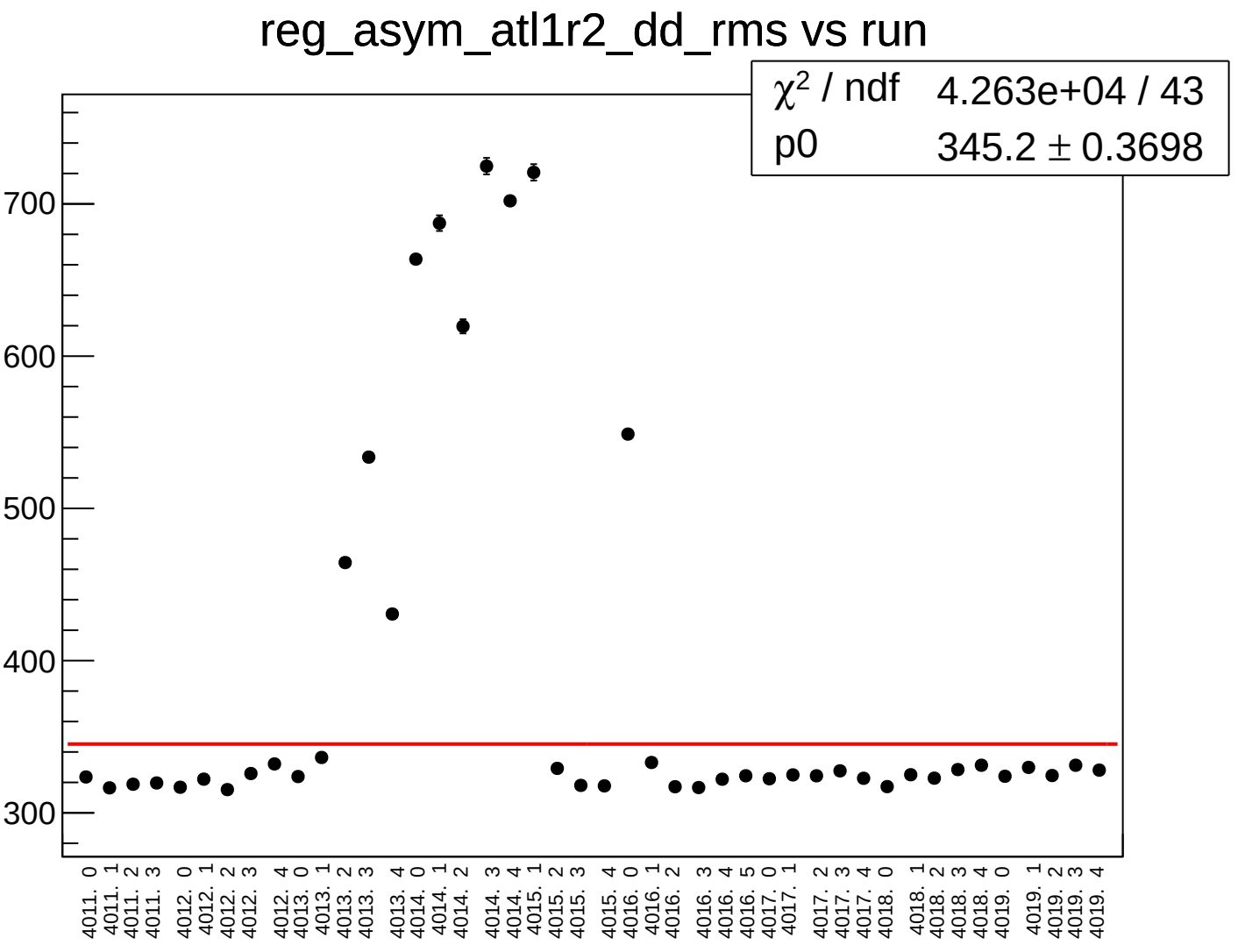

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 1.214e+04 / 43
p0 871.5 ± 0.9177
1100
1050
1000
950
900
850
800
750
700
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

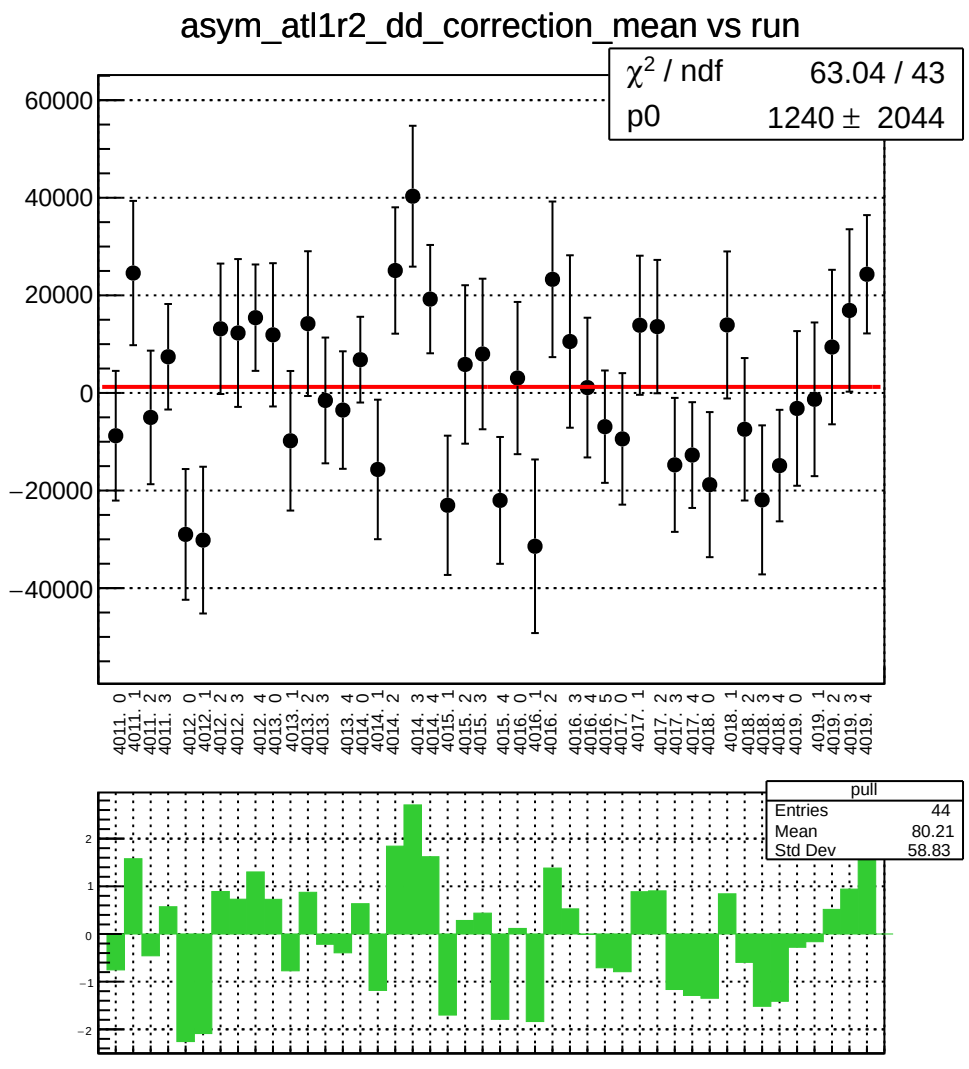

asym_atl1r2_avg_mean vs run
χ² / ndf 39.39 / 43
p0 1069 ± 1393
40000
30000
20000
10000
0
−10000
−20000
−30000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −302.8
Std Dev 318.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean 0.006468
Std Dev 0.9461
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

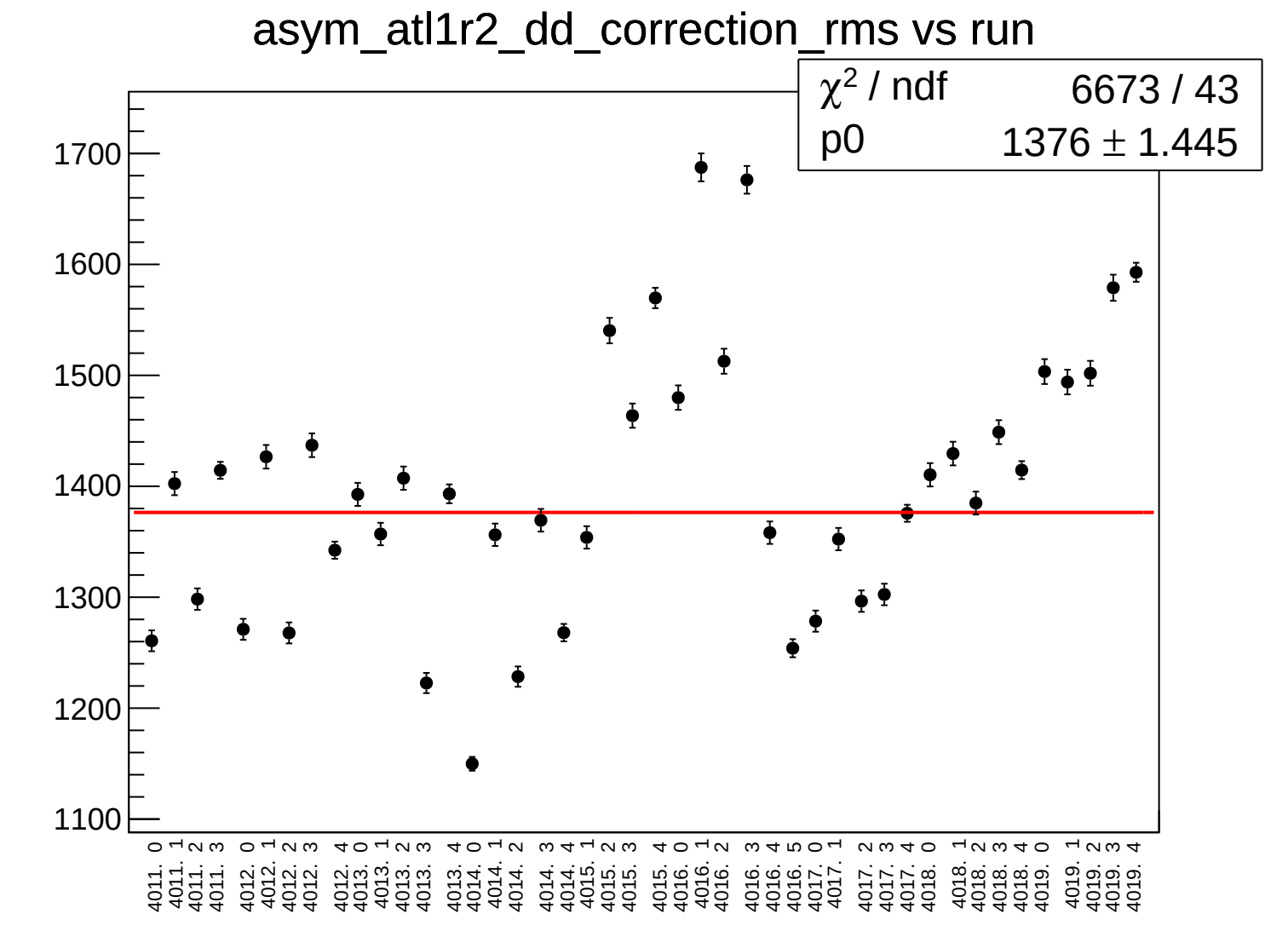

asym_atl1r2_avg_rms vs run
χ² / ndf 7615 / 43
p0 937.9 ± 0.9852
1150
1100
1050
1000
950
900
850
800
750
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

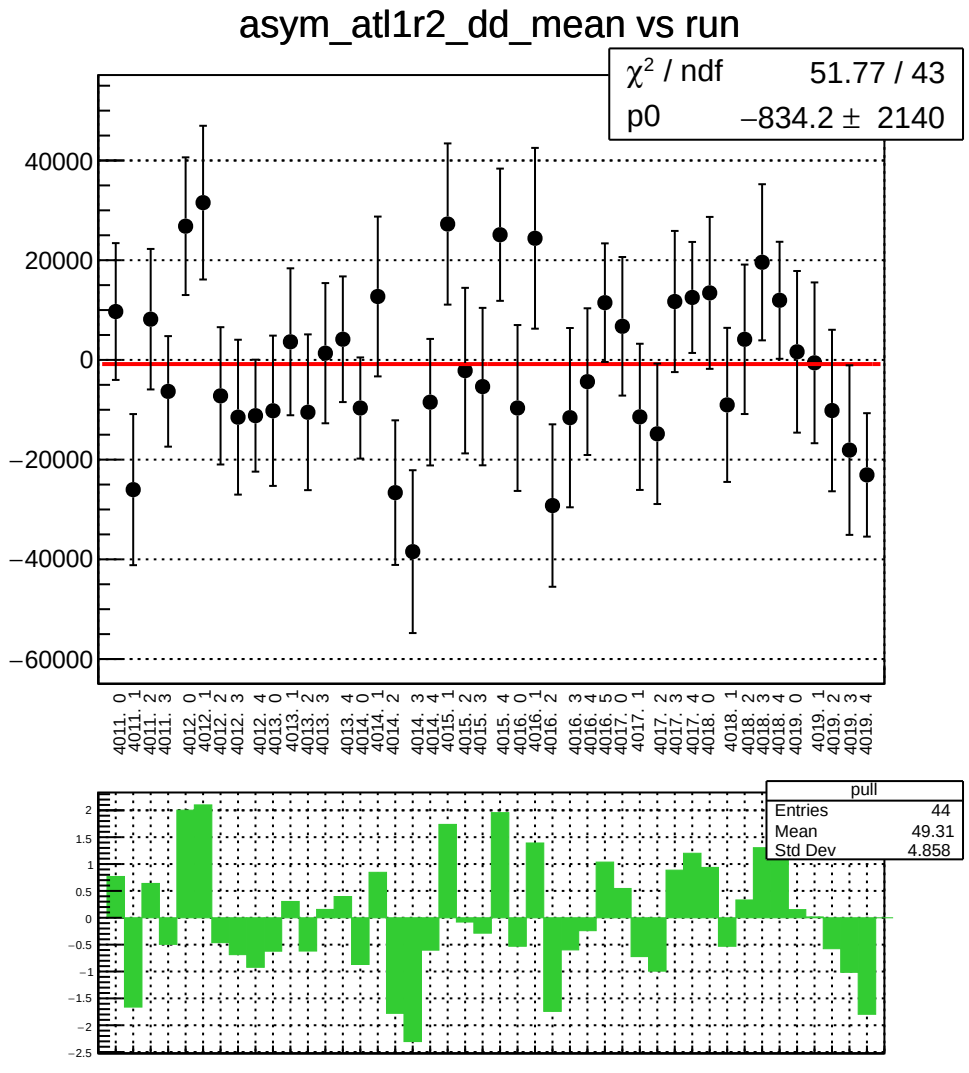

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 40.6 / 43
p0 −58.77 ± 523
15000
10000
5000
0
−5000
−10000
−15000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 252.7
Std Dev 231
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

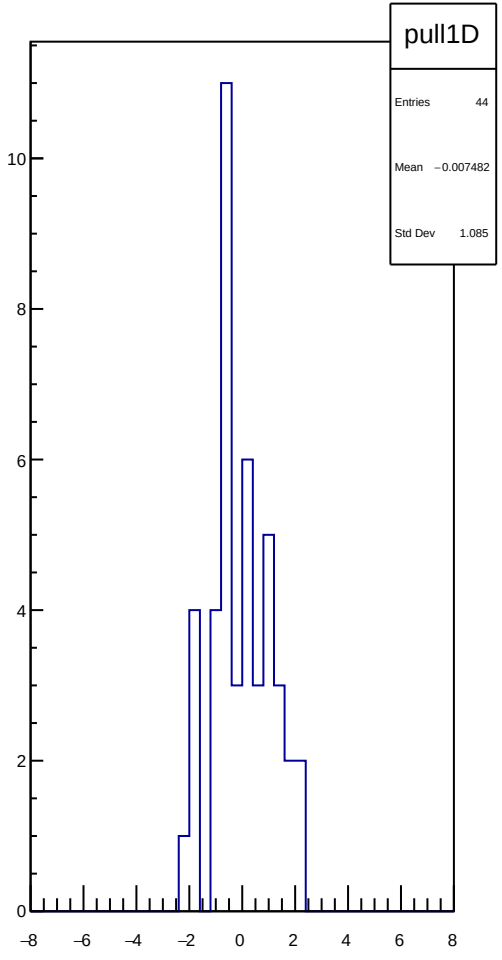

pull1D
Entries 44
Mean −0.01505
Std Dev 0.9604
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

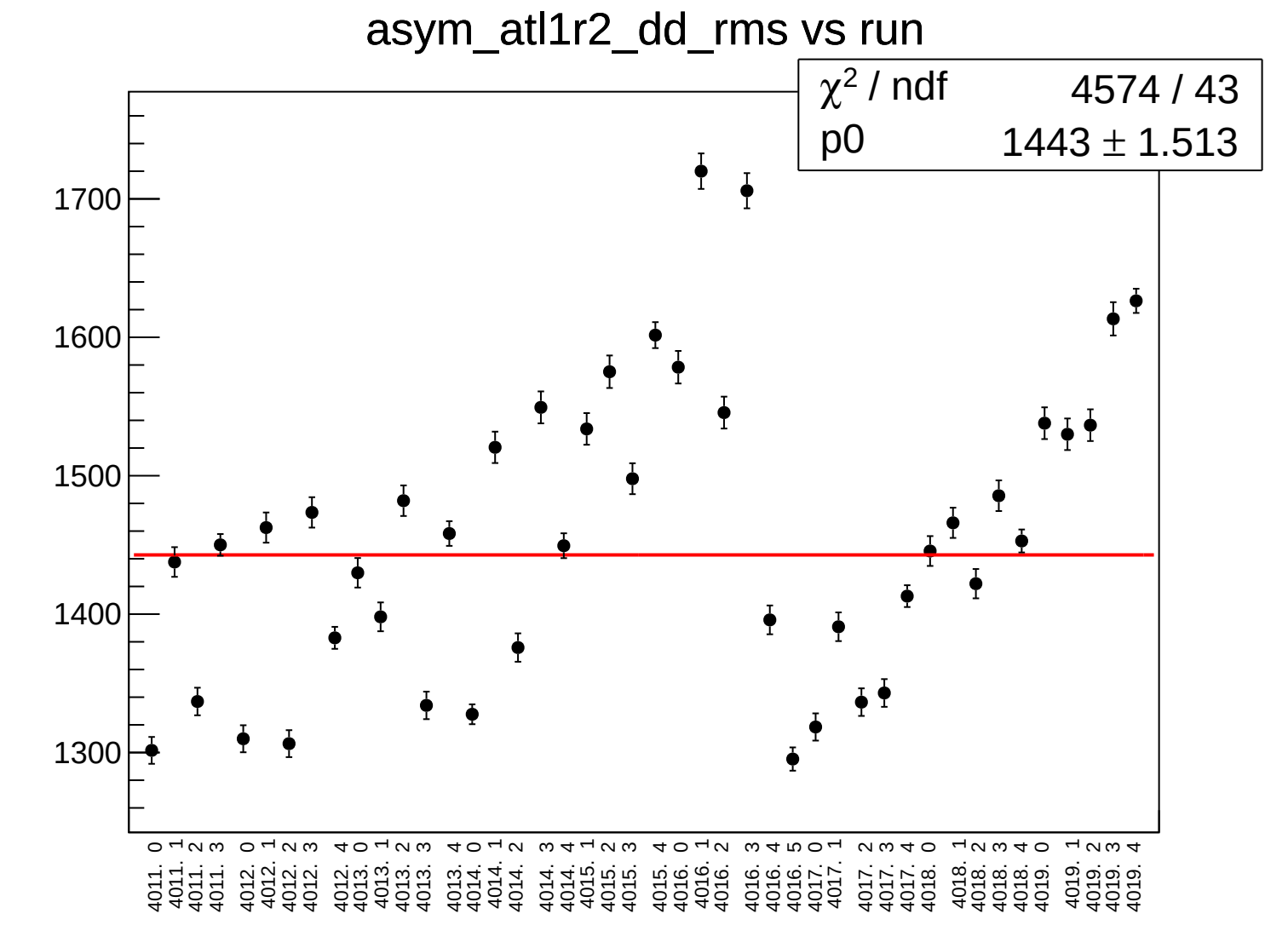

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 4.263e+04 / 43
p0 345.2 ± 0.3698
700
600
500
400
300
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

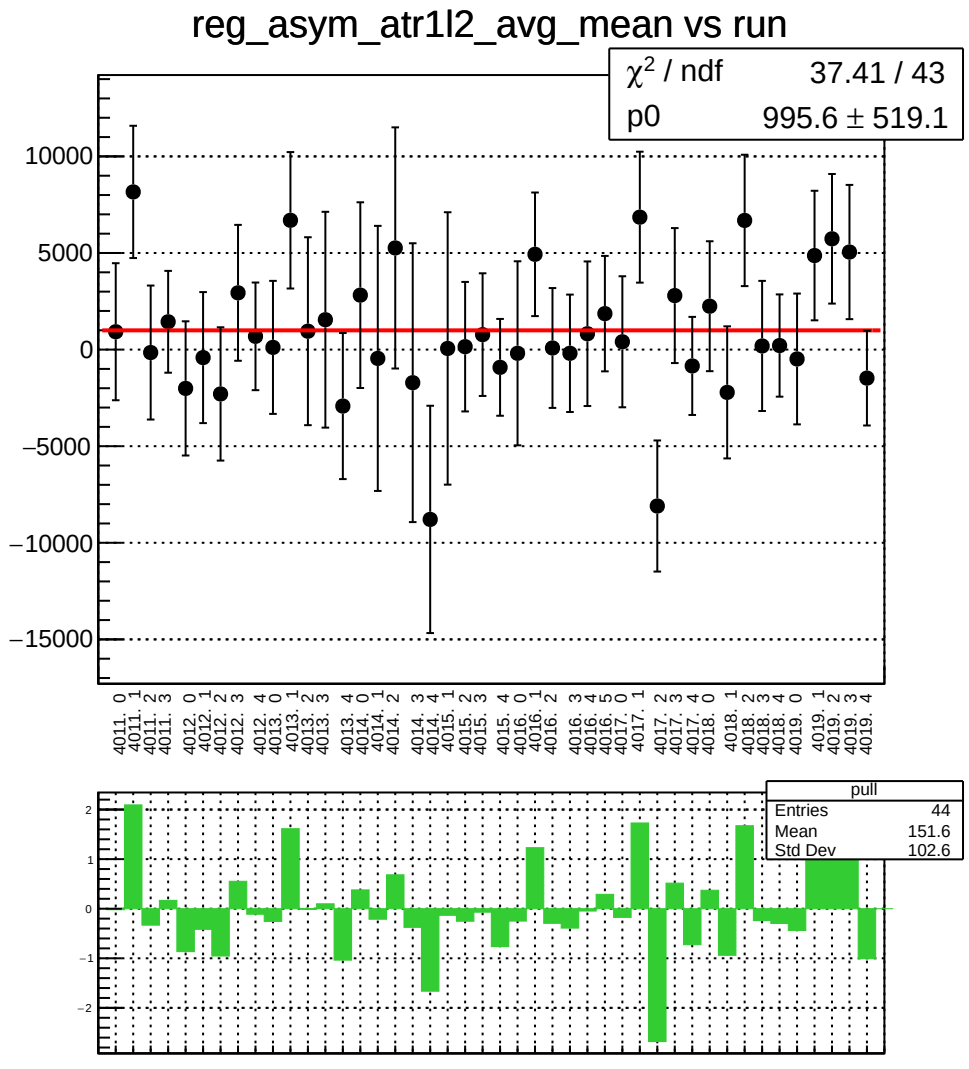

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 63.04 / 43
p0 1240 ± 2044
60000
40000
20000
0
−20000
−40000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 80.21
Std Dev 58.83
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.01146
Std Dev 1.197
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

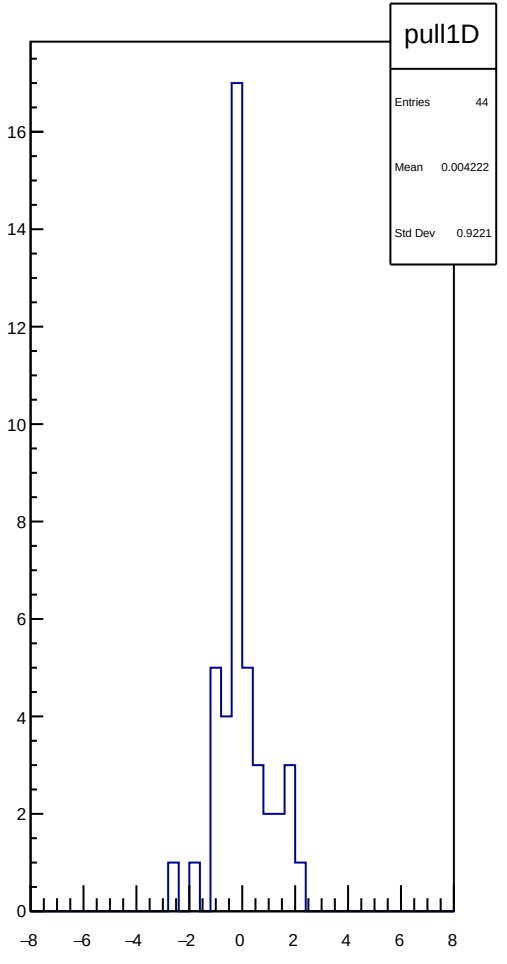

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 6673 / 43
p0 1376 ± 1.445
1700
1600
1500
1400
1300
1200
1100
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

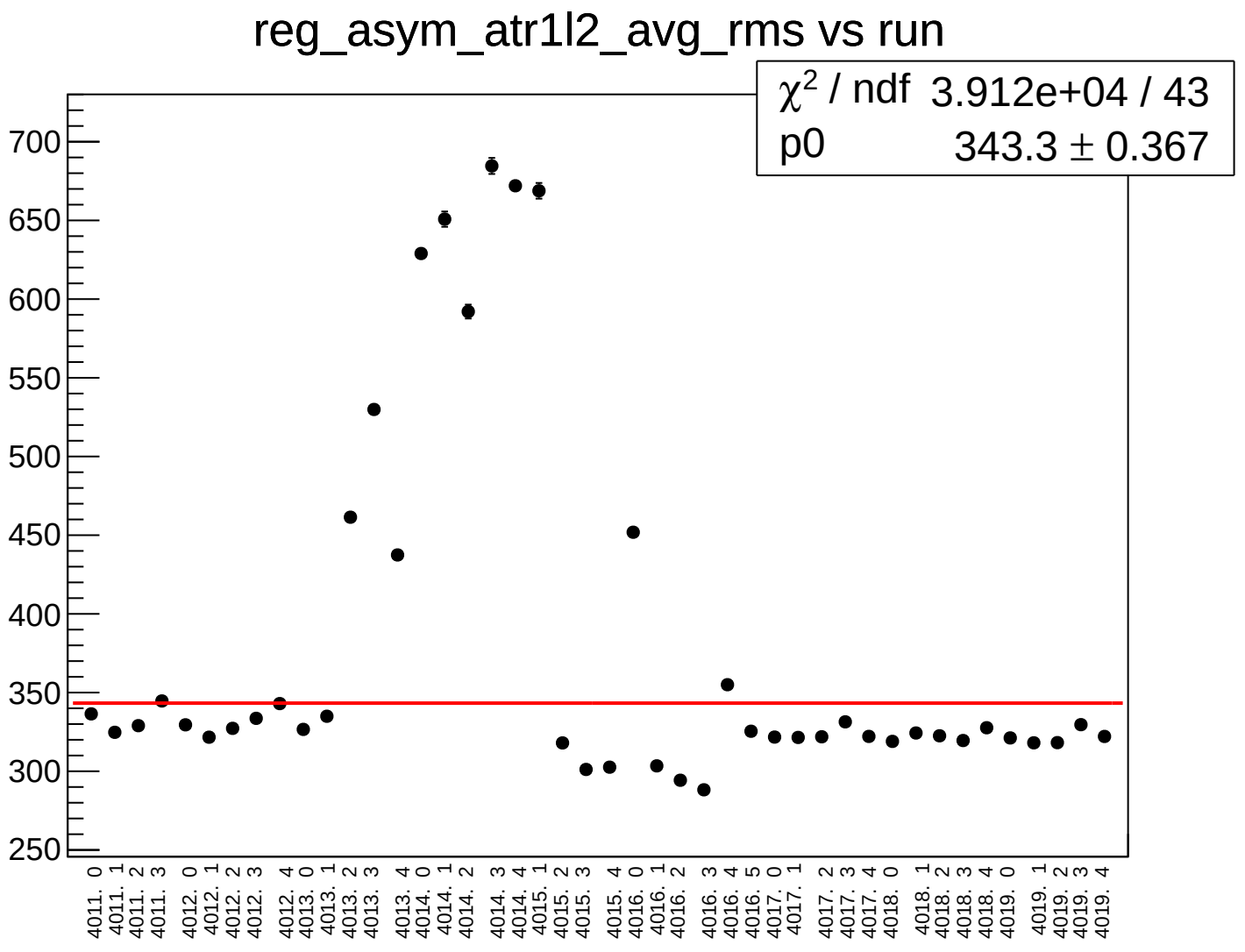

asym_atl1r2_dd_mean vs run
χ² / ndf 51.77 / 43
p0 −834.2 ± 2140
40000
20000
0
−20000
−40000
−60000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 49.31
Std Dev 4.858
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

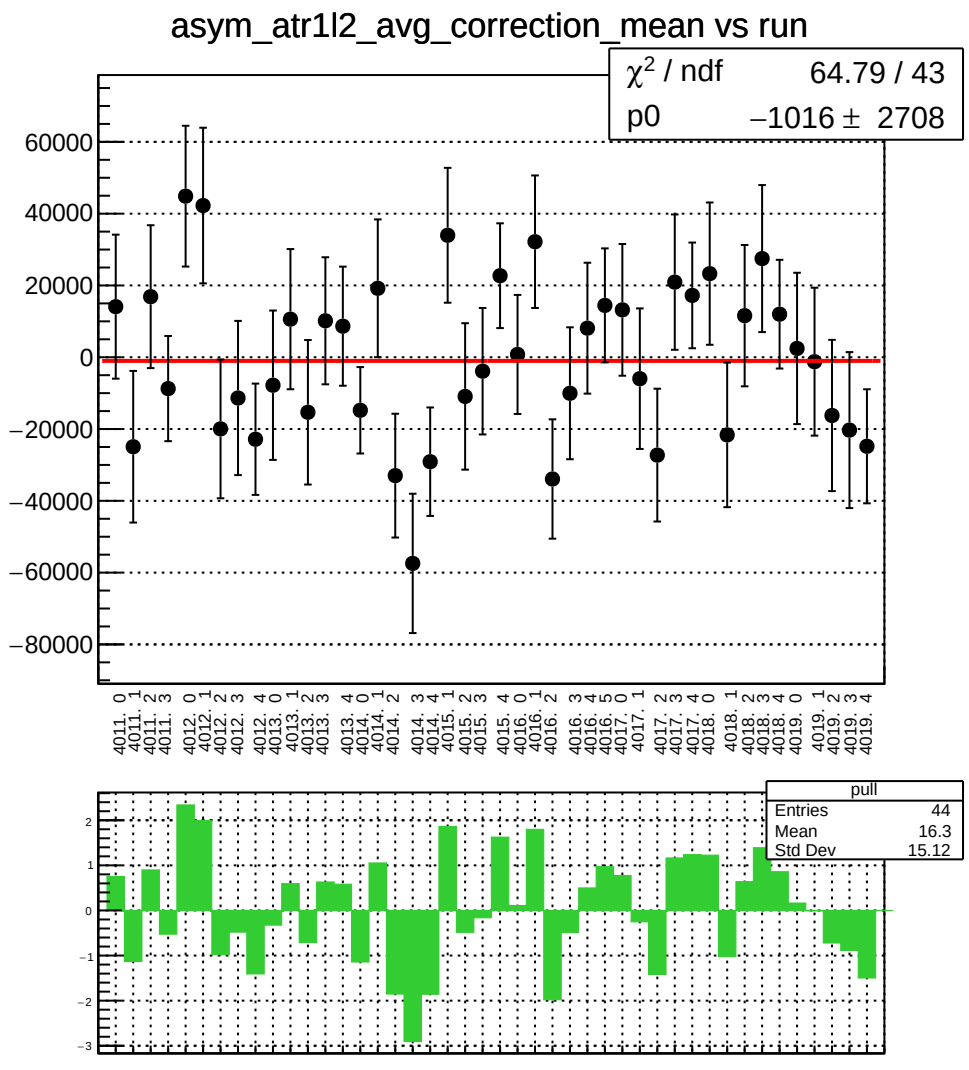

pull1D
Entries 44
Mean −0.007482
Std Dev 1.085
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

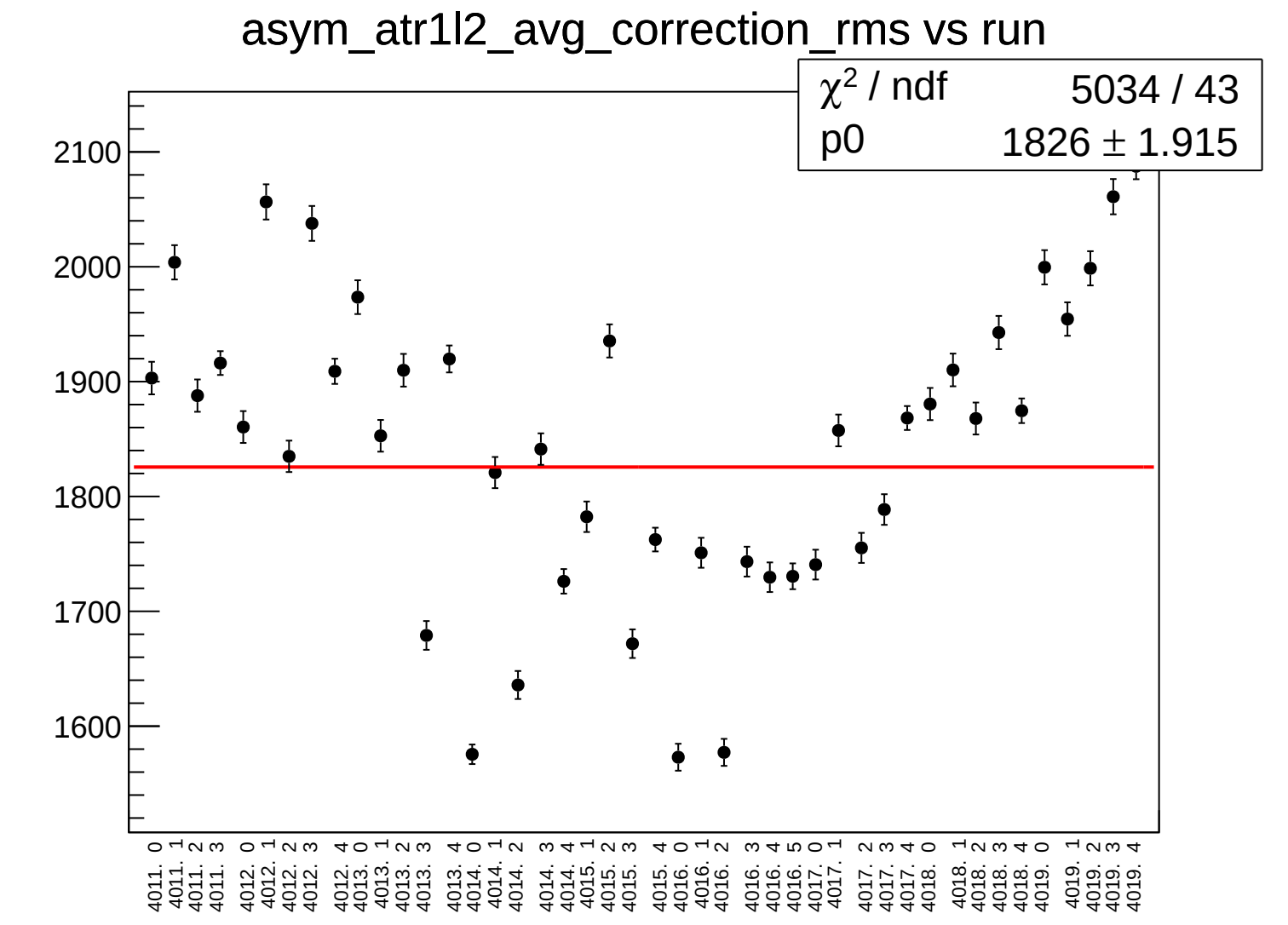

asym_atl1r2_dd_rms vs run
χ² / ndf 4574 / 43
p0 1443 ± 1.513
1700
1600
1500
1400
1300
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

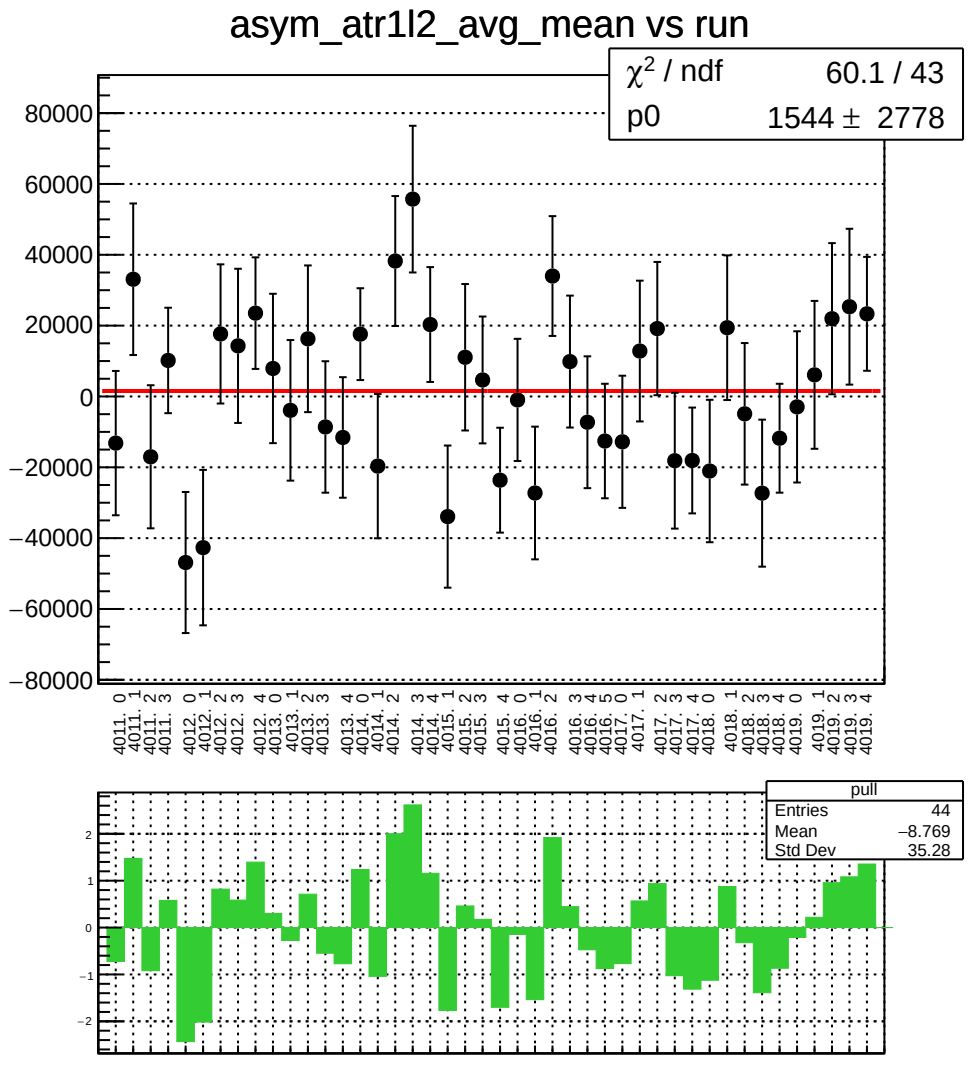

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 37.41 / 43
p0 995.6 ± 519.1
10000
5000
0
−5000
−10000
−15000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 151.6
Std Dev 102.6
2
1
0
−1
−2

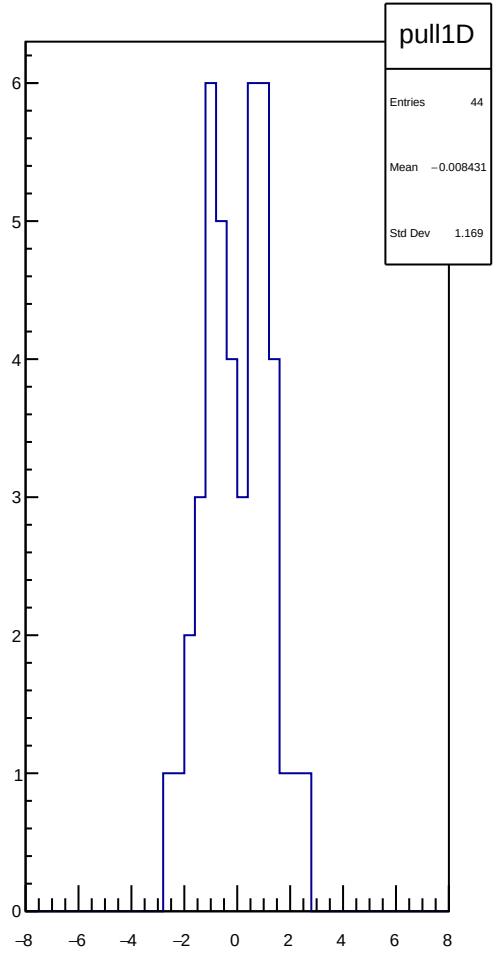

pull1D
Entries 44
Mean 0.004222
Std Dev 0.9221
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

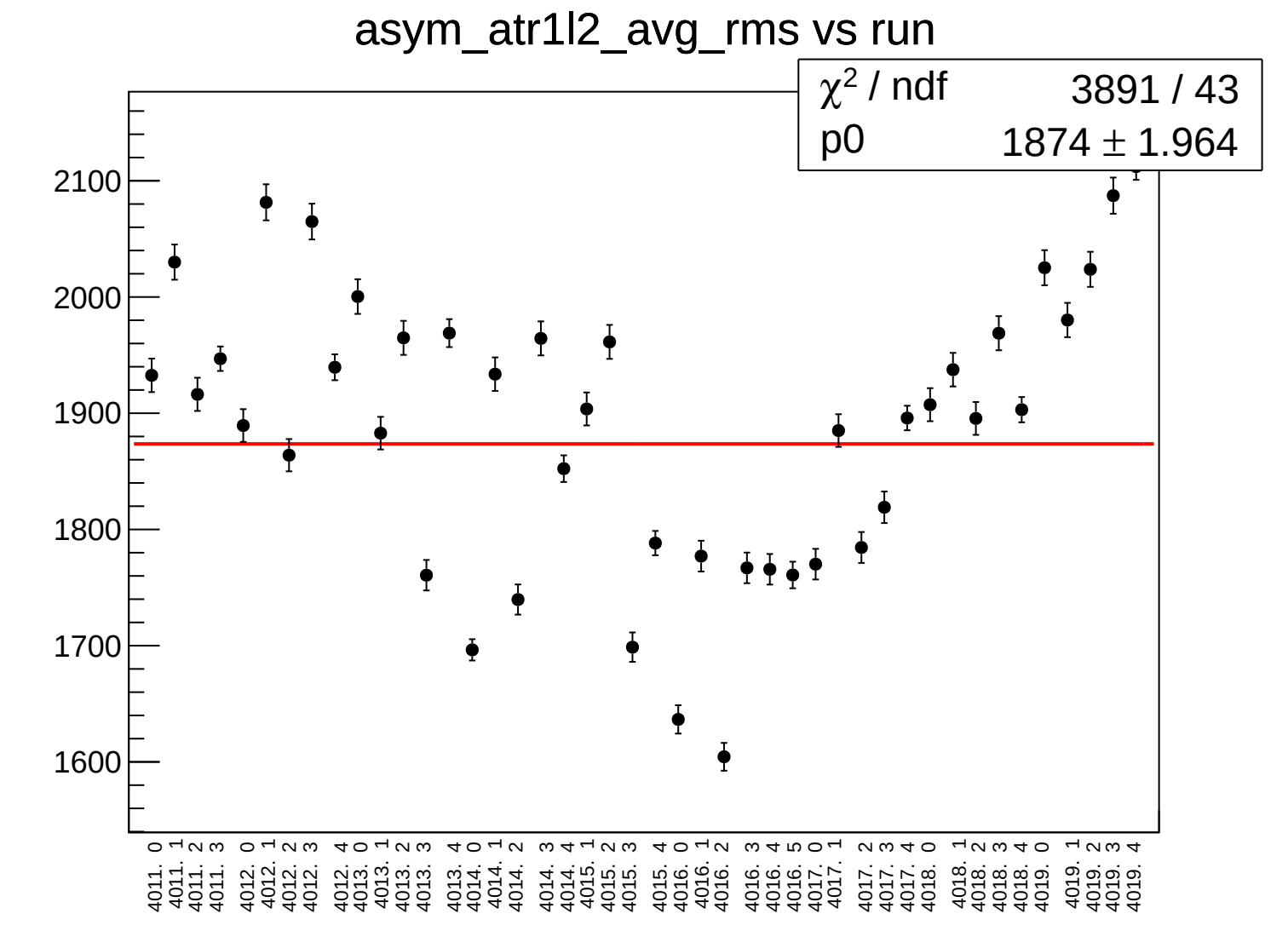

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 3.912e+04 / 43
p0 343.3 ± 0.367
700
650
600
550
500
450
400
350
300
250
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

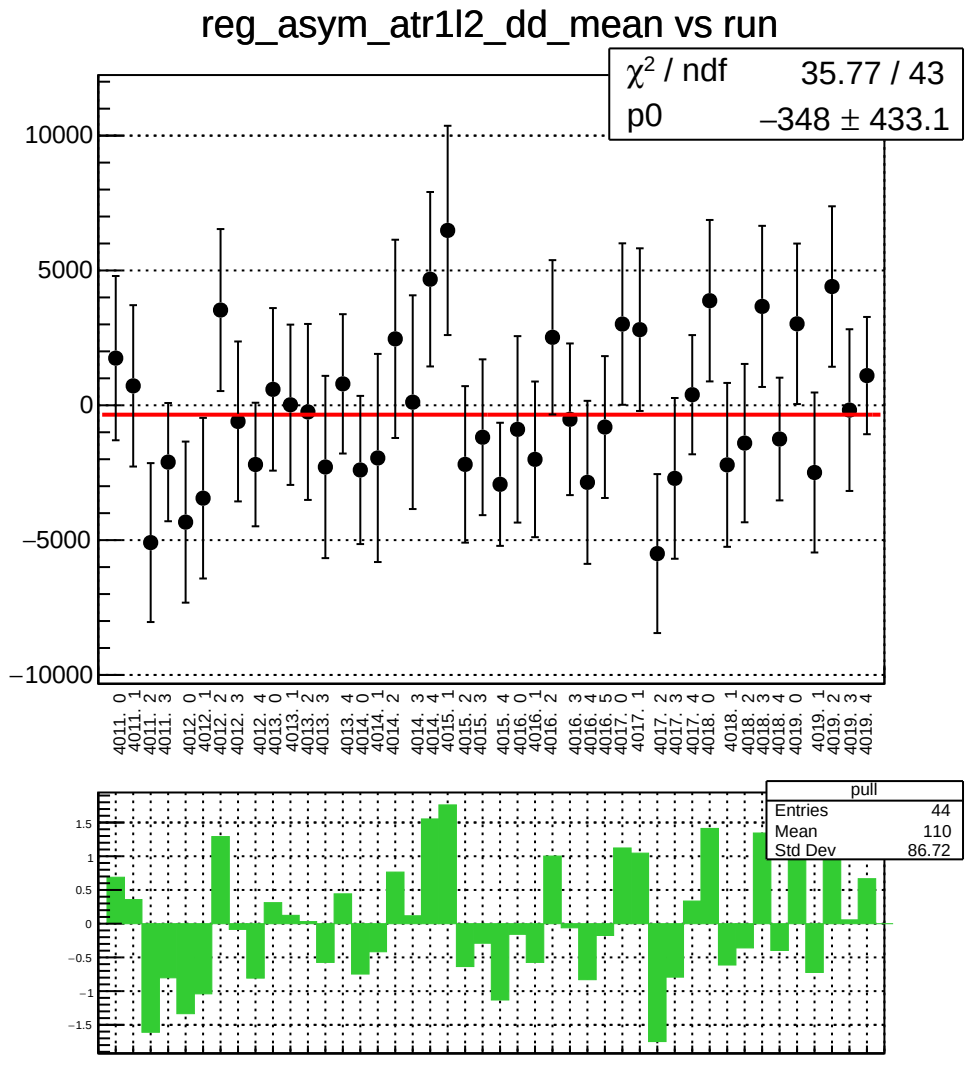

asym_atr1l2_avg_correction_mean vs run
χ² / ndf 64.79 / 43
p0 −1016 ± 2708
60000
40000
20000
0
−20000
−40000
−60000
−80000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 16.3
Std Dev 15.12
2
1
0
−1
−2
−3
pull1D
Entries 44
Mean 0.02103
Std Dev 1.213
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

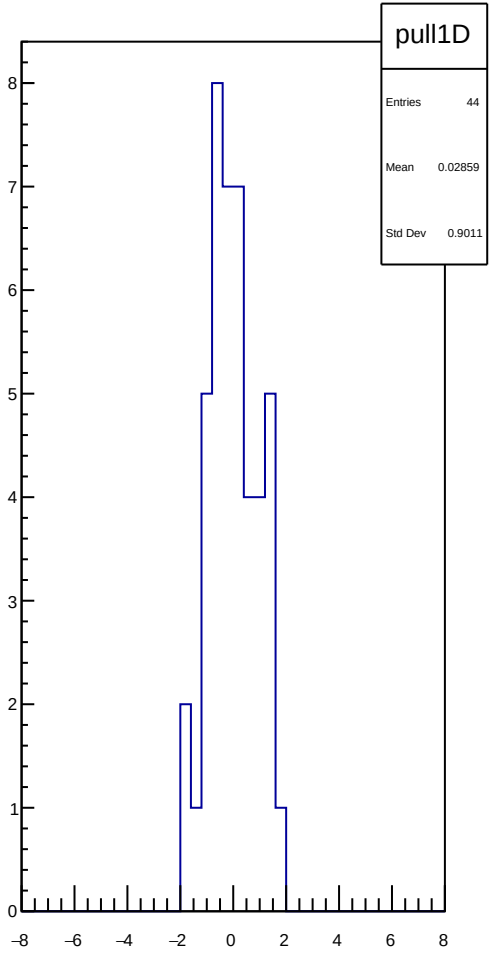

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 5034 / 43
p0 1826 ± 1.915
2100
2000
1900
1800
1700
1600
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

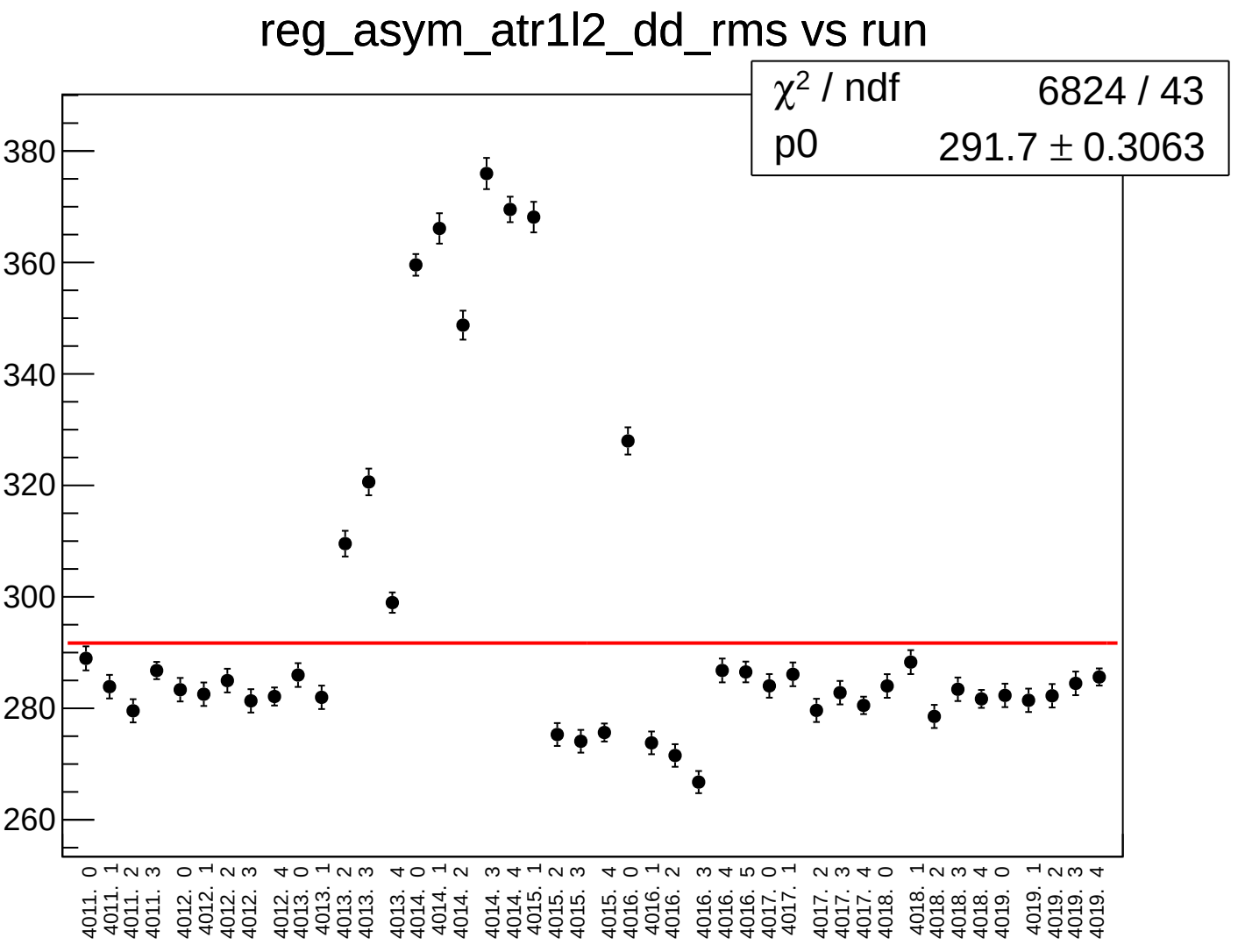

asym_atr1l2_avg_mean vs run
χ² / ndf 60.1 / 43
p0 1544 ± 2778
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −8.769
Std Dev 35.28
2
1
0
−1
−2

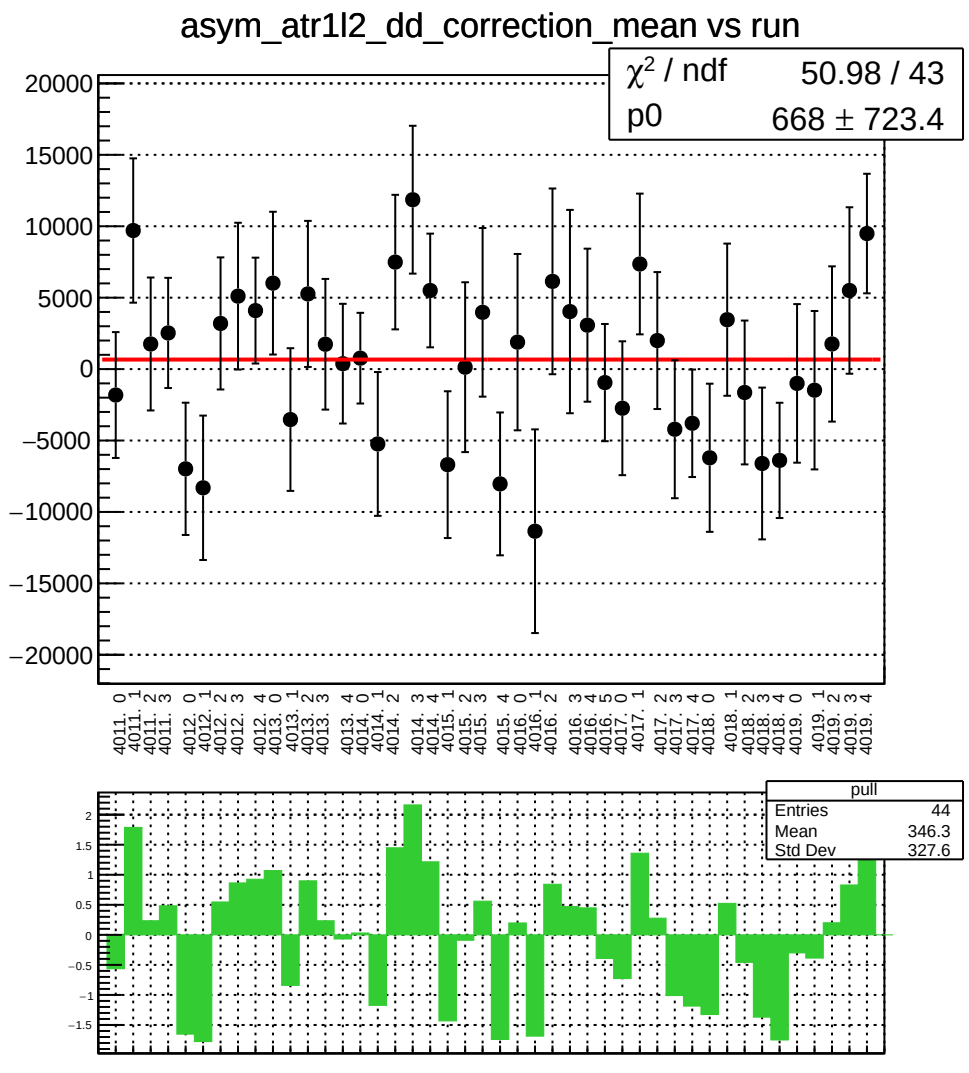

pull1D
Entries 44
Mean −0.008431
Std Dev 1.169
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

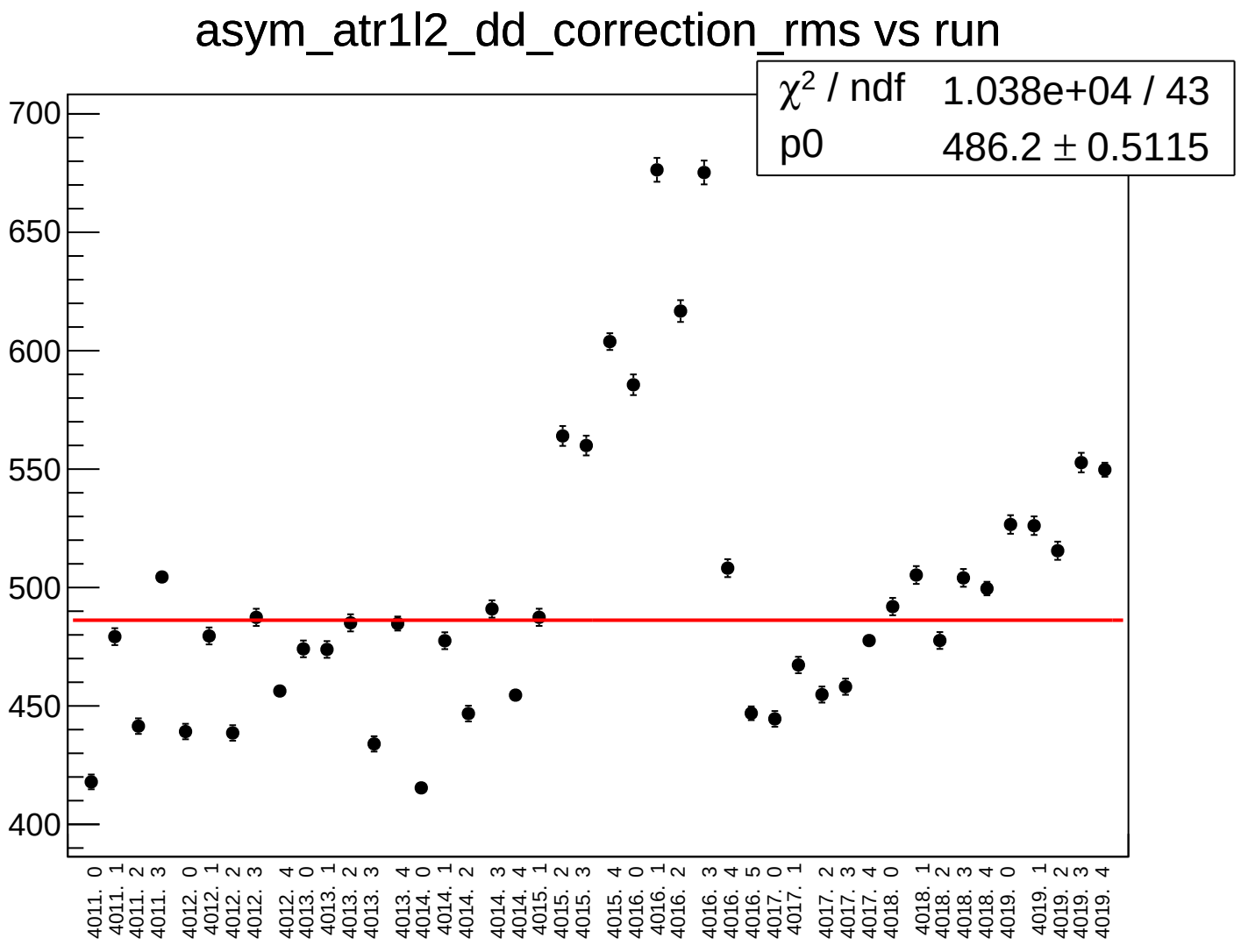

asym_atr1l2_avg_rms vs run
χ^2 / ndf 3891 / 43
p0 1874 ± 1.964
2100
2000
1900
1800
1700
1600
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

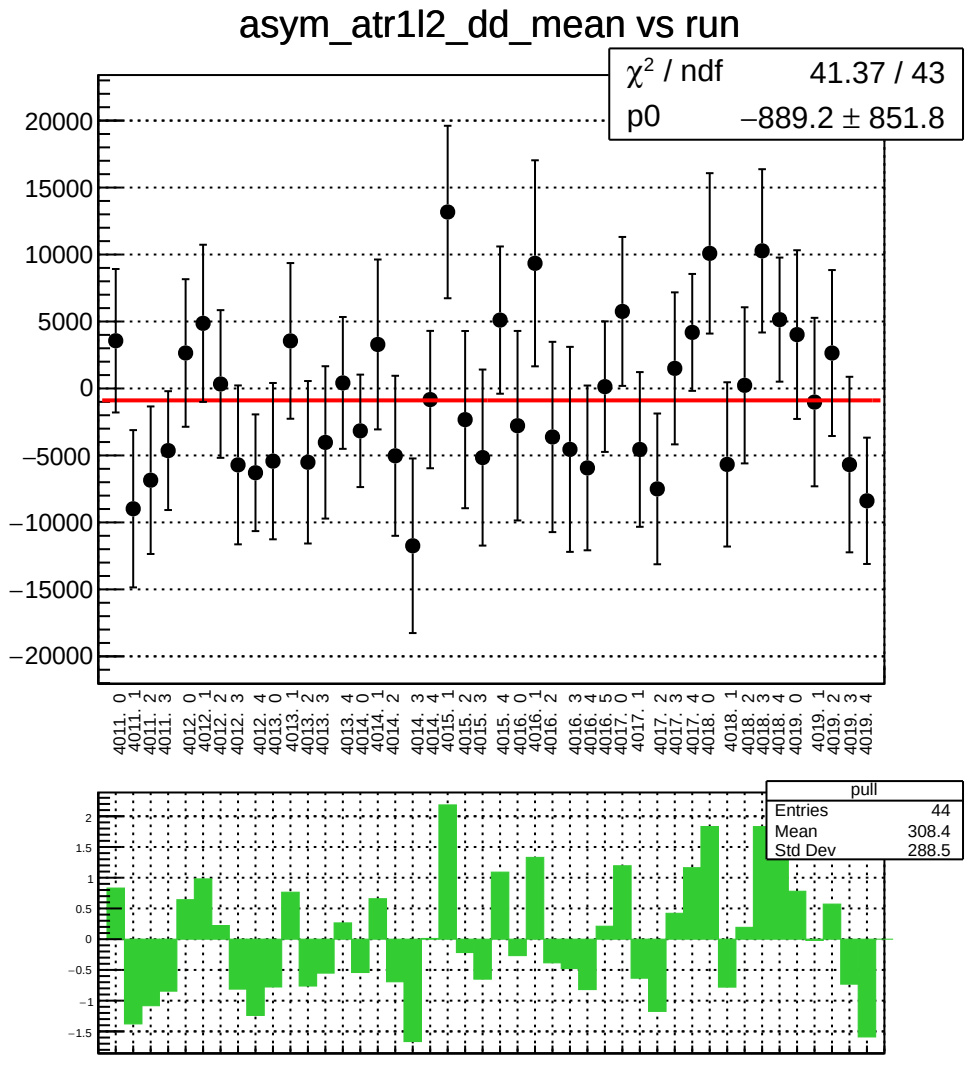

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 35.77 / 43
p0 −348 ± 433.1
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 110
Std Dev 86.72
1.5
1
0.5
0
−0.5
−1
−1.5

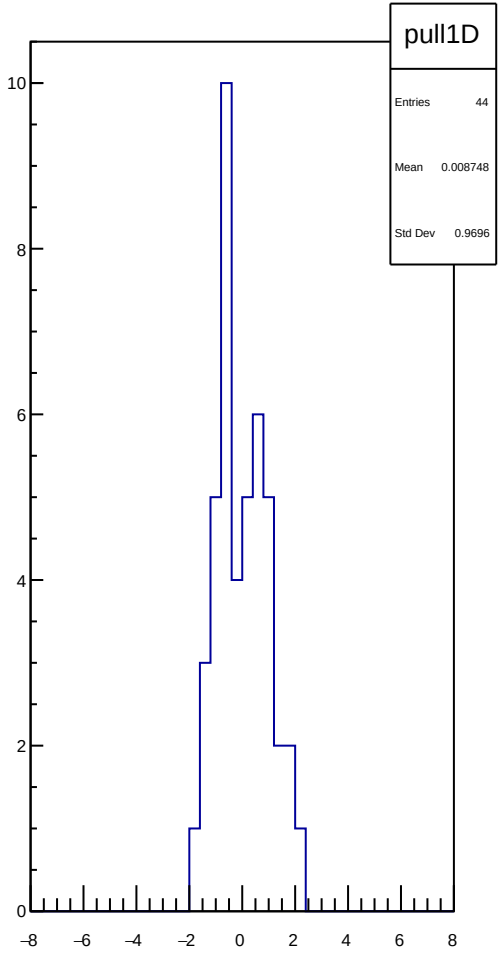

pull1D
Entries 44
Mean 0.02859
Std Dev 0.9011
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

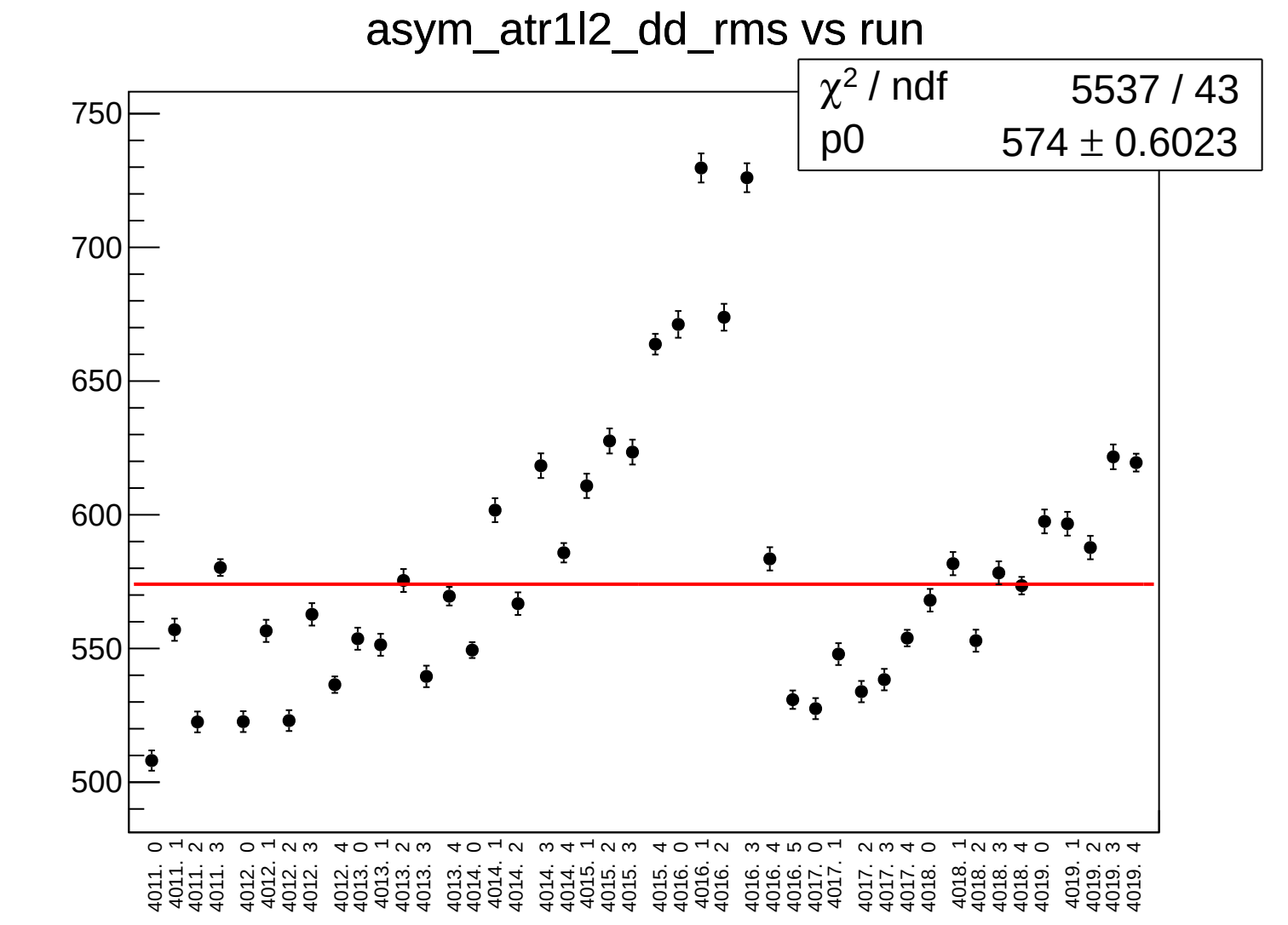

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 6824 / 43
p0 291.7 ± 0.3063
380
360
340
320
300
280
260
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

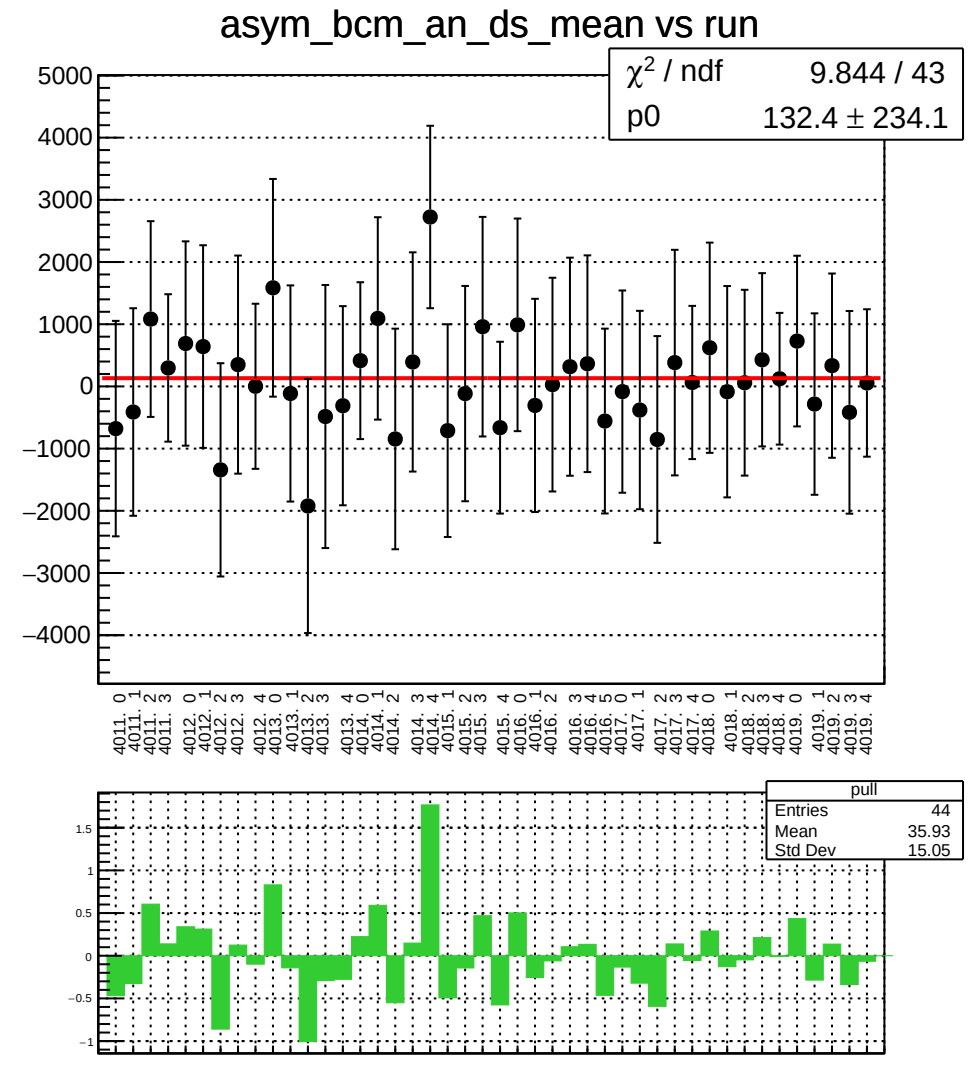

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 50.98 / 43
p0 668 ± 723.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 346.3
Std Dev 327.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean −0.00469
Std Dev 1.076
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

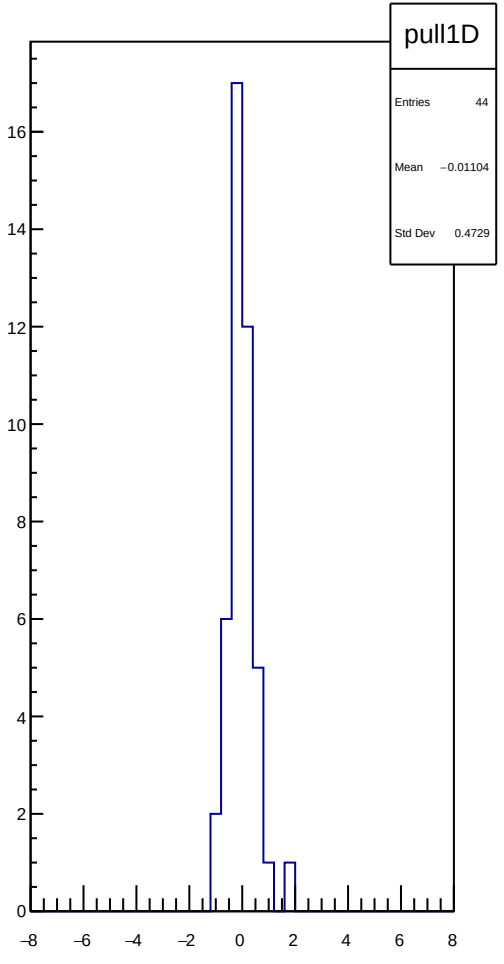

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 1.038e+04 / 43
p0 486.2 ± 0.5115
700
650
600
550
500
450
400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

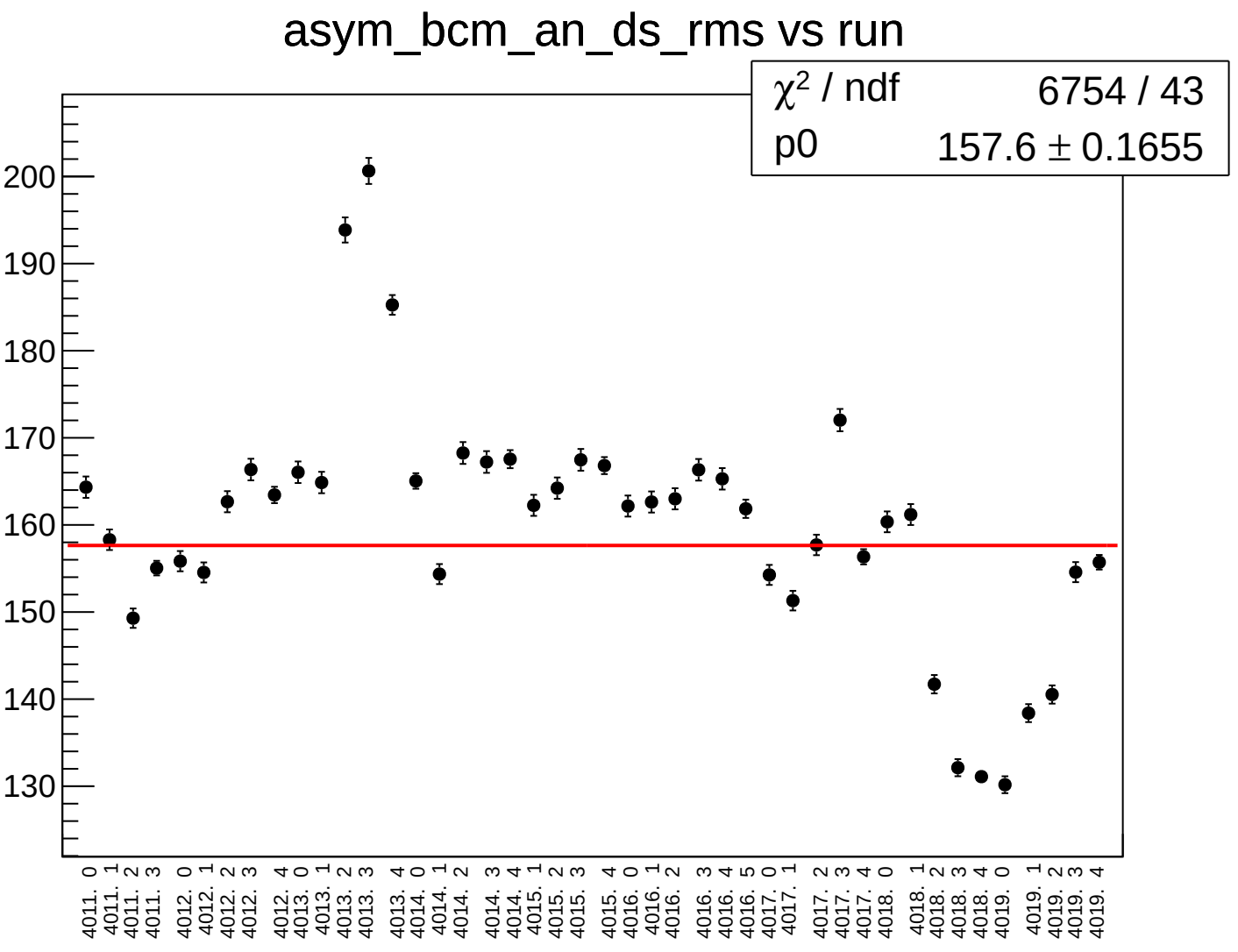

asym_atr1l2_dd_mean vs run
χ² / ndf 41.37 / 43
p0 −889.2 ± 851.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 308.4
Std Dev 288.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

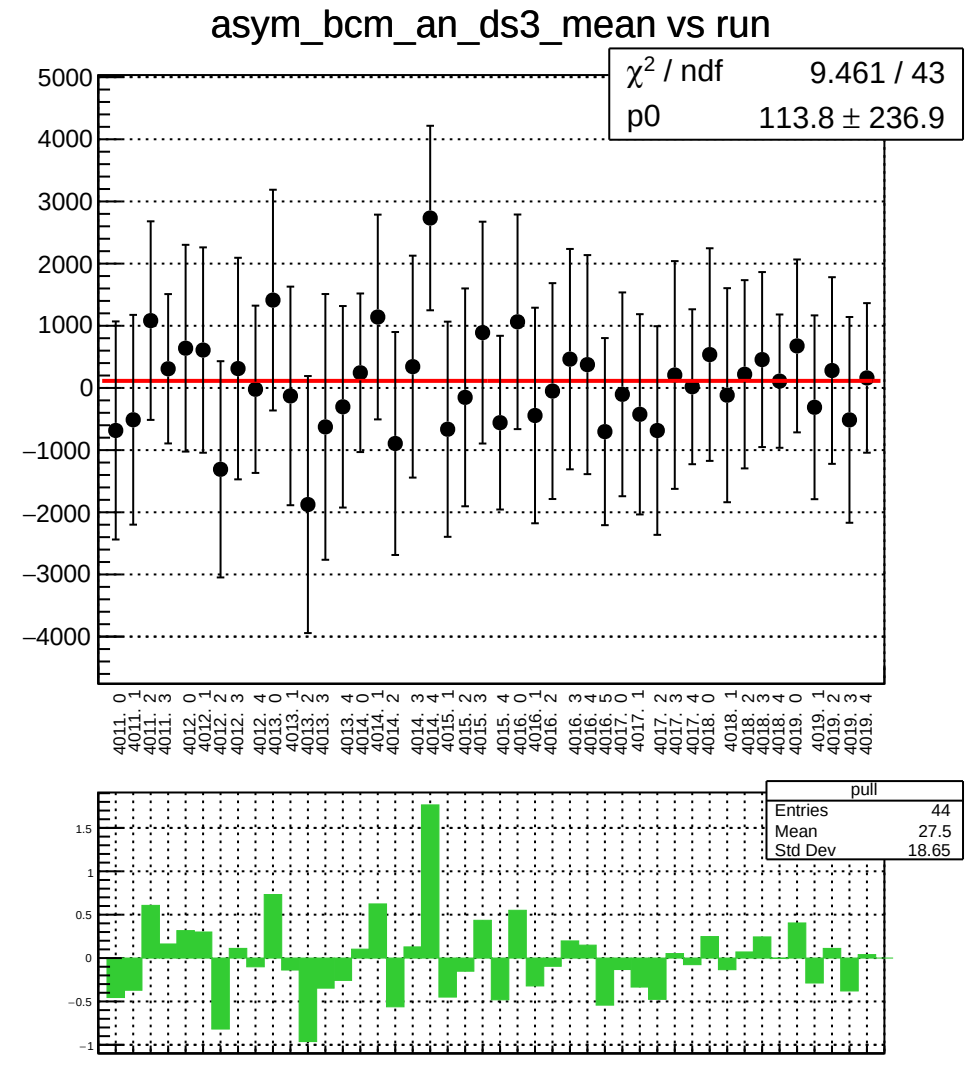

pull1D
Entries 44
Mean 0.008748
Std Dev 0.9696
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

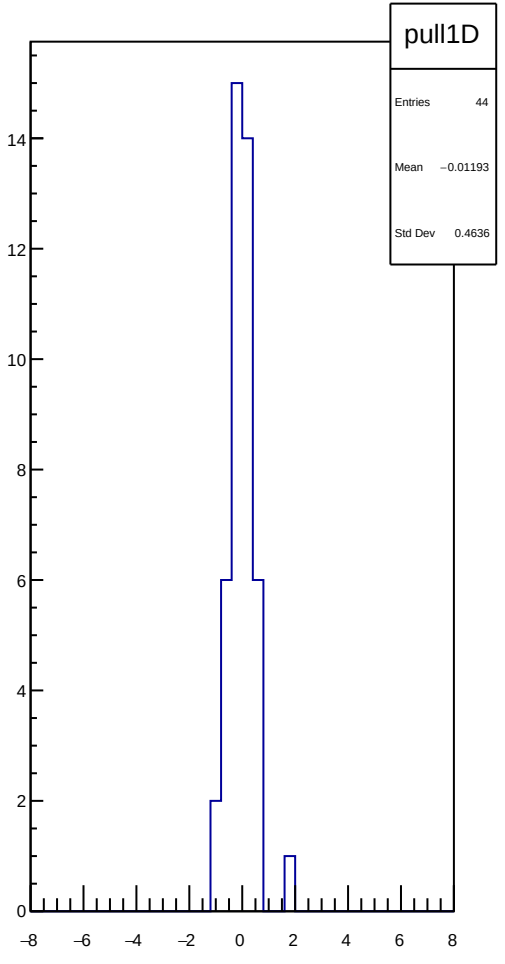

asym_atr1l2_dd_rms vs run
χ² / ndf 5537 / 43
p0 574 ± 0.6023
750
700
650
600
550
500
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

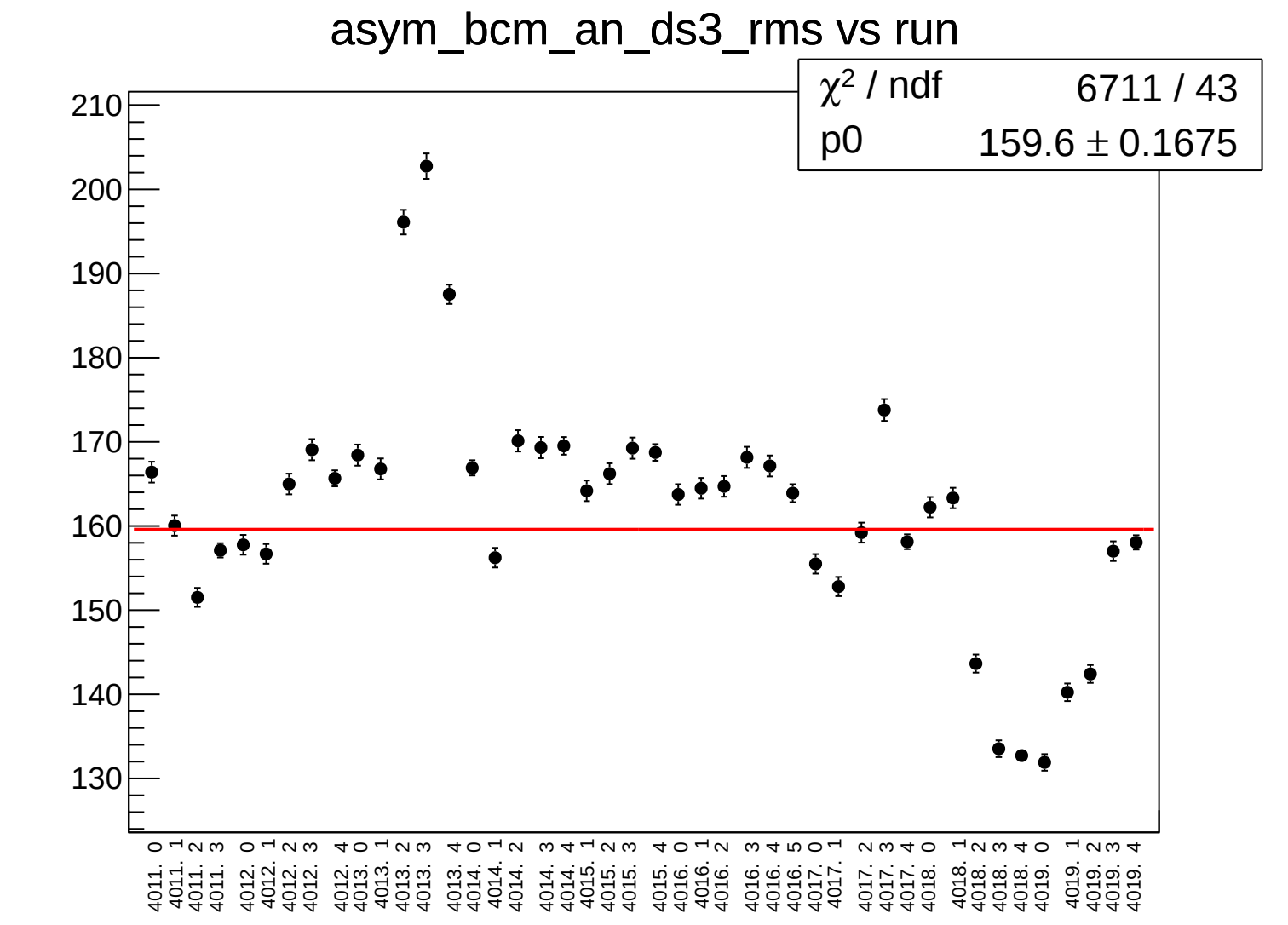

asym_bcm_an_ds_mean vs run
χ² / ndf 9.844 / 43
p0 132.4 ± 234.1
pull
Entries 44
Mean 35.93
Std Dev 15.05

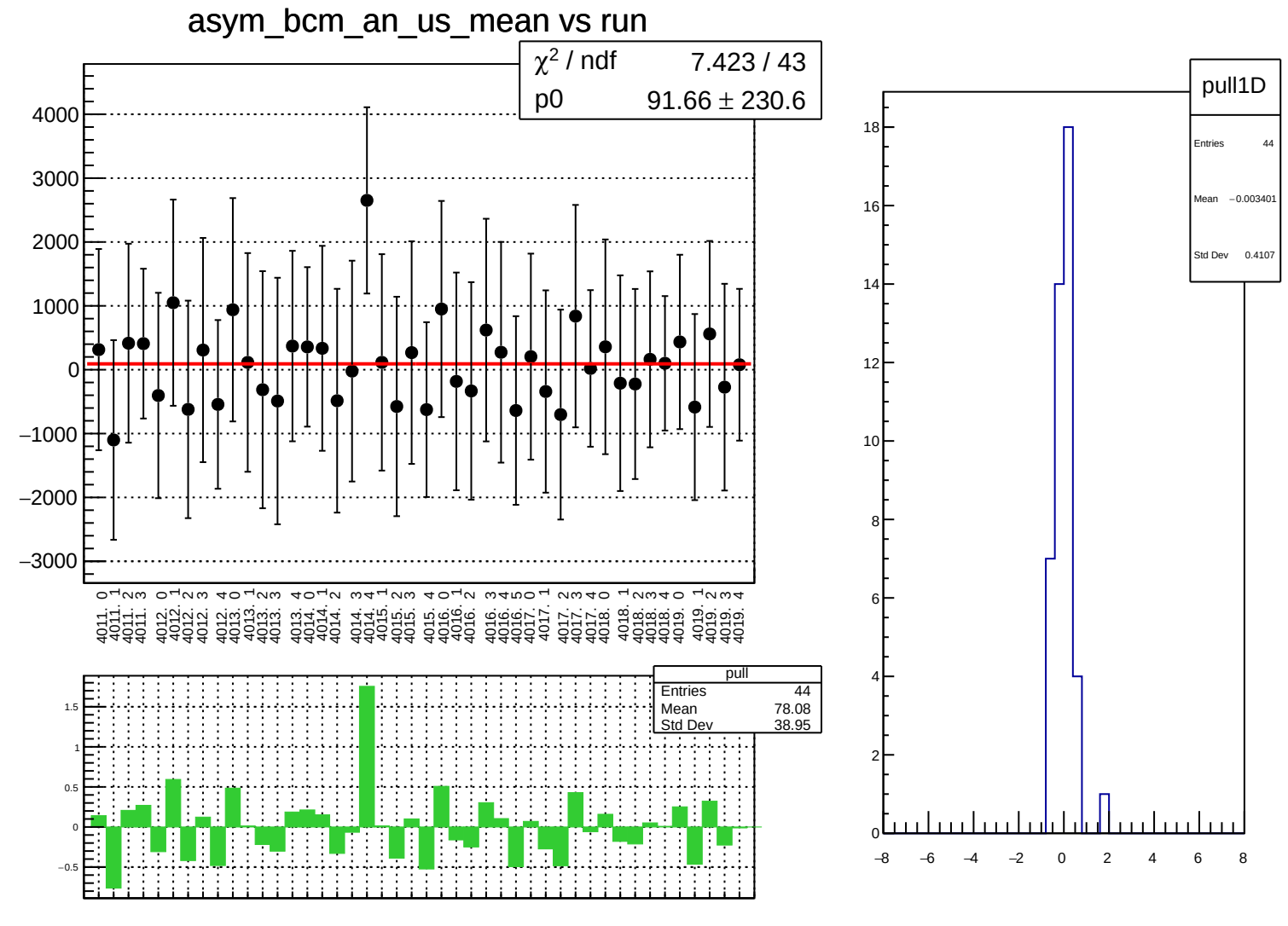

pull1D
Entries 44
Mean −0.01104
Std Dev 0.4729

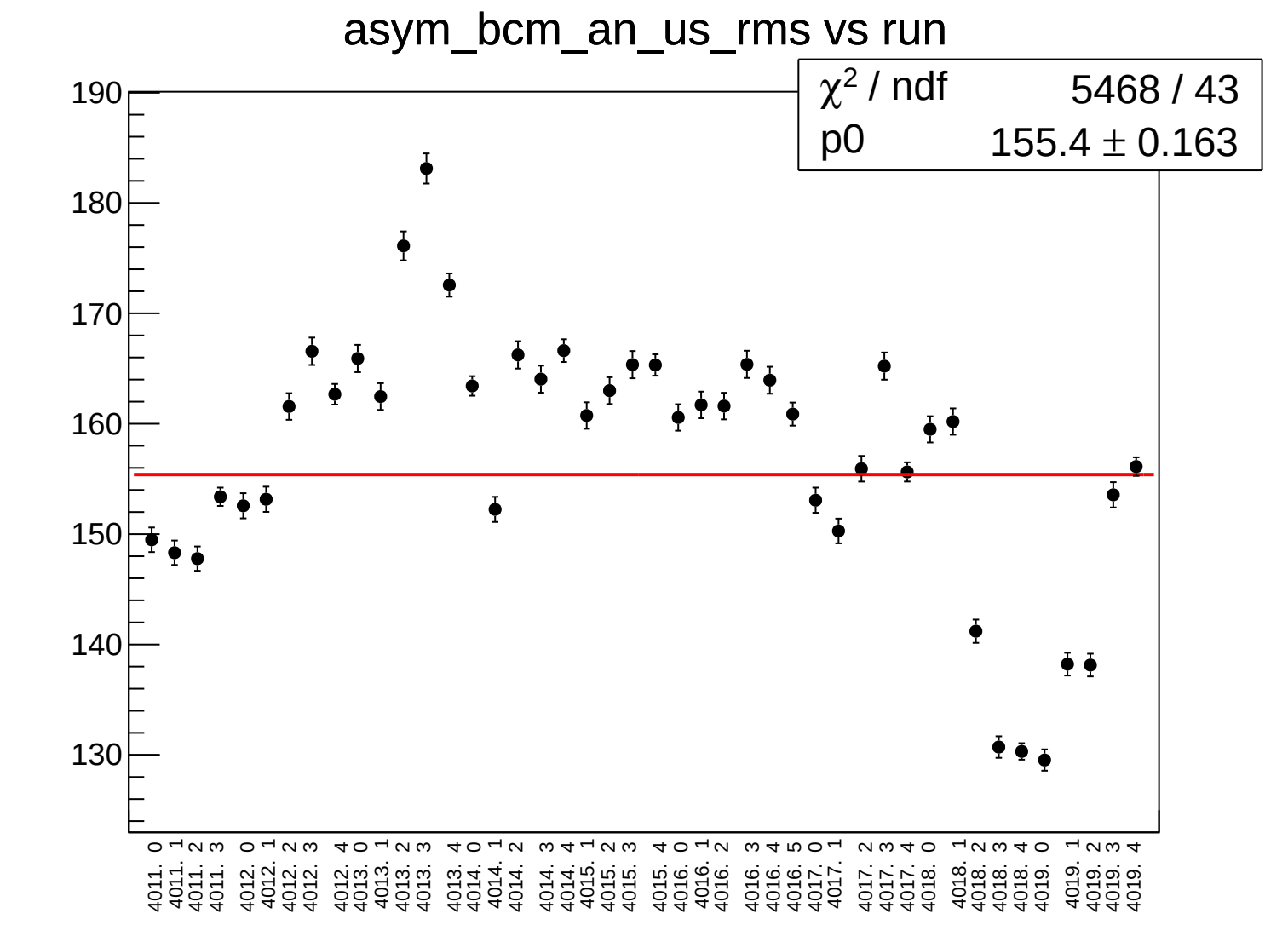

asym_bcm_an_ds_rms vs run
χ² / ndf 6754 / 43
p0 157.6 ± 0.1655
200
190
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

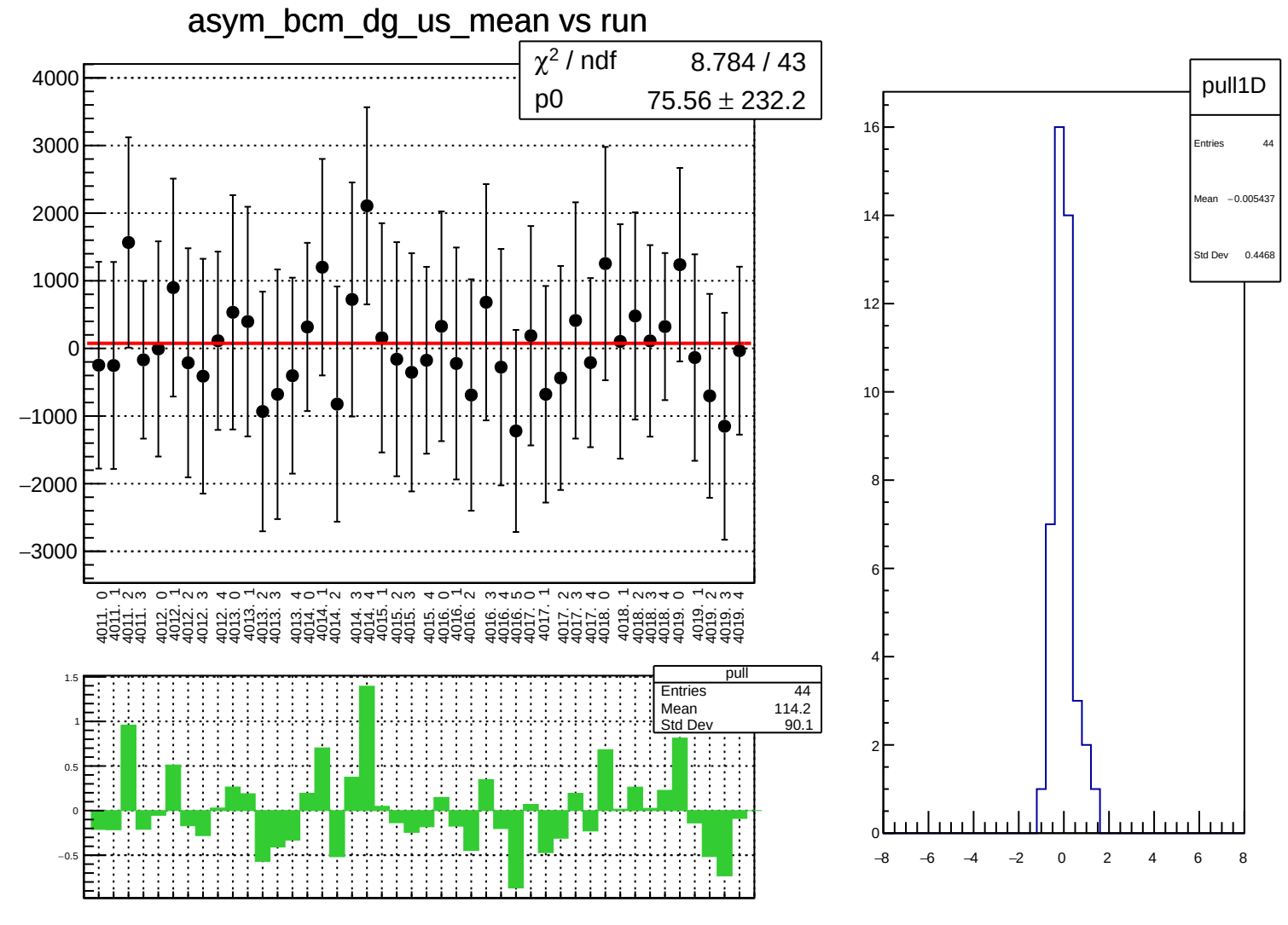

asym_bcm_an_ds3_mean vs run
χ² / ndf 9.461 / 43
p0 113.8 ± 236.9
pull
Entries 44
Mean 27.5
Std Dev 18.65

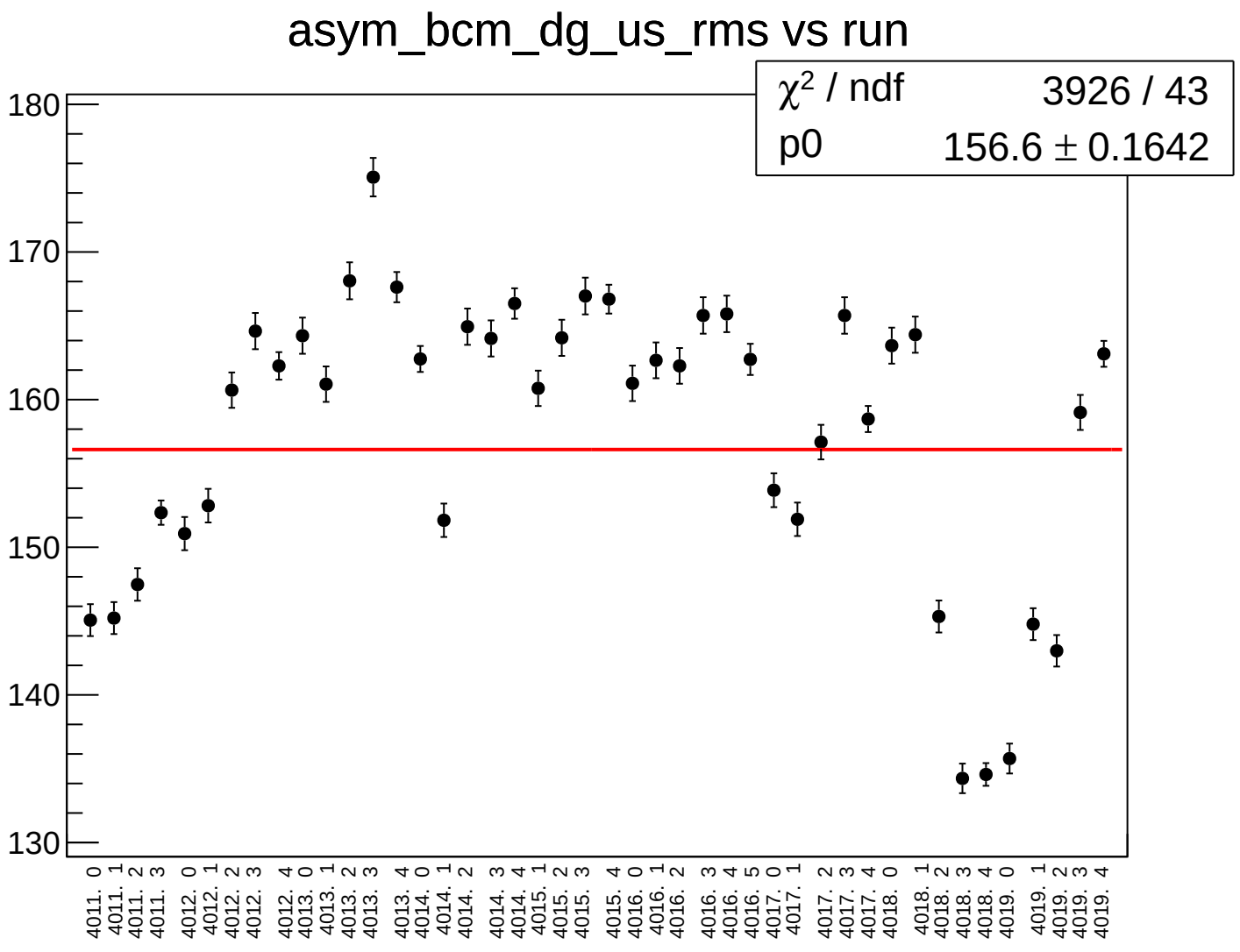

pull1D
Entries 44
Mean −0.01193
Std Dev 0.4636

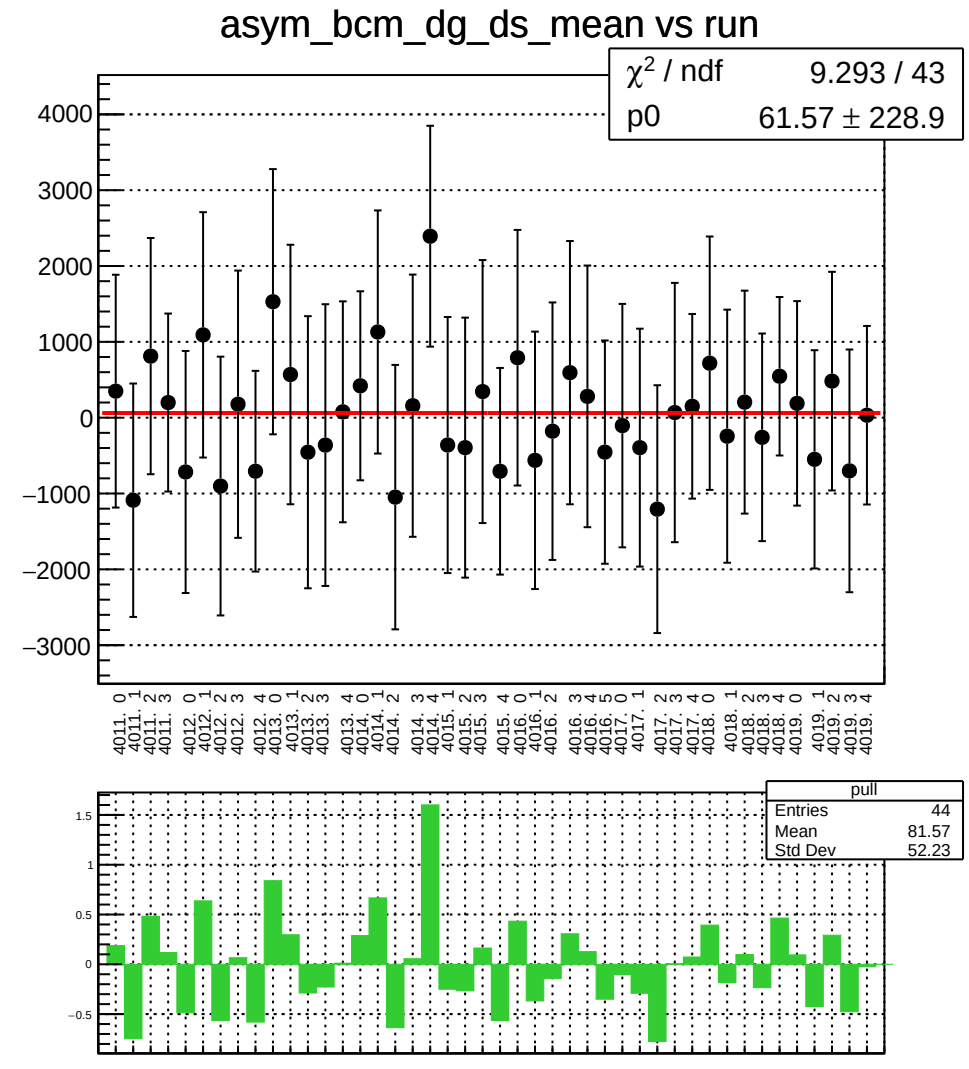

asym_bcm_an_ds3_rms vs run
χ² / ndf 6711 / 43
p0 159.6 ± 0.1675
210
200
190
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

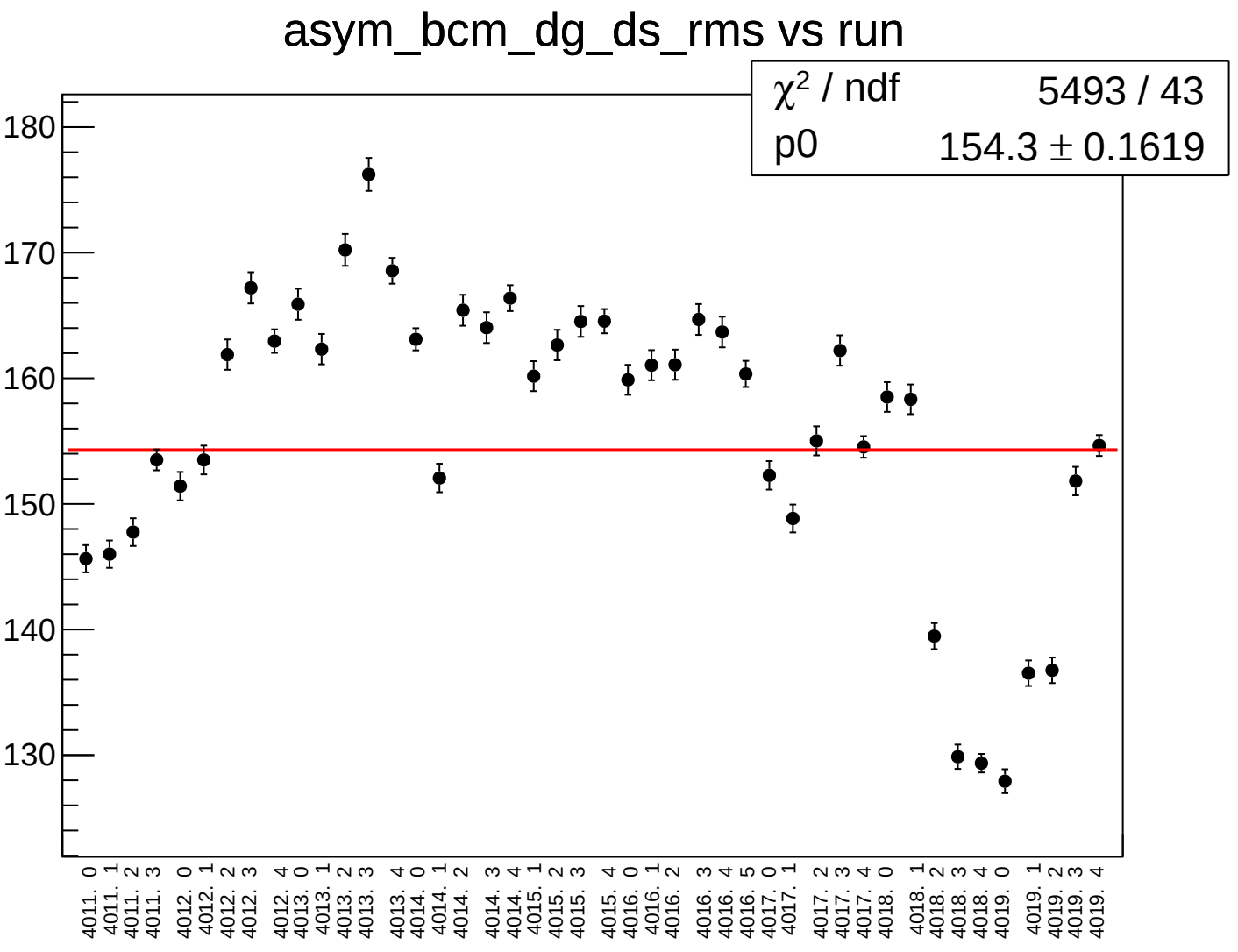

asym_bcm_an_us_mean vs run
χ² / ndf 7.423 / 43
p0 91.66 ± 230.6
4000
3000
2000
1000
0
−1000
−2000
−3000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 78.08
Std Dev 38.95
1.5
1
0.5
0
−0.5
pull1D
Entries 44
Mean −0.003401
Std Dev 0.4107
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

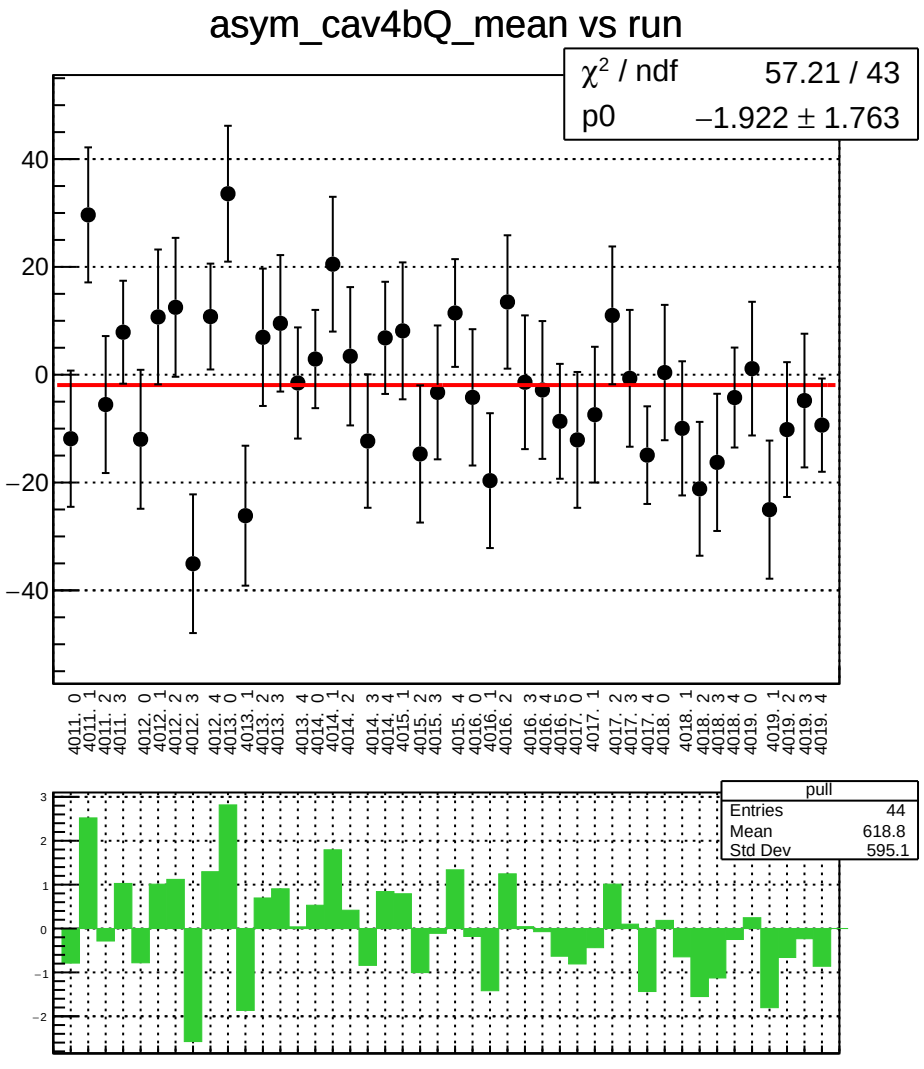

asym_bcm_an_us_rms vs run
χ² / ndf 5468 / 43
p0 155.4 ± 0.163
190
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

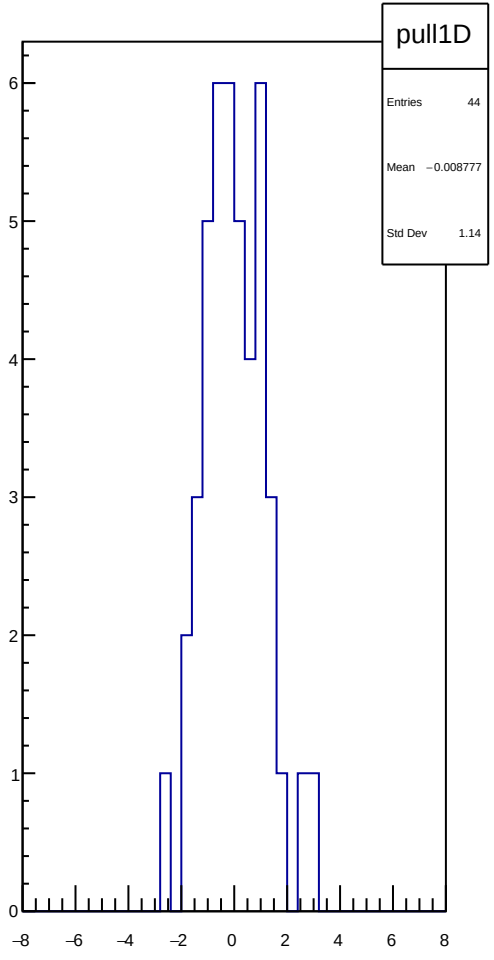

asym_bcm_dg_us_mean vs run
χ² / ndf 8.784 / 43
p0 75.56 ± 232.2
4000
3000
2000
1000
0
−1000
−2000
−3000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 114.2
Std Dev 90.1
1.5
1
0.5
0
−0.5
pull1D
Entries 44
Mean −0.005437
Std Dev 0.4468
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

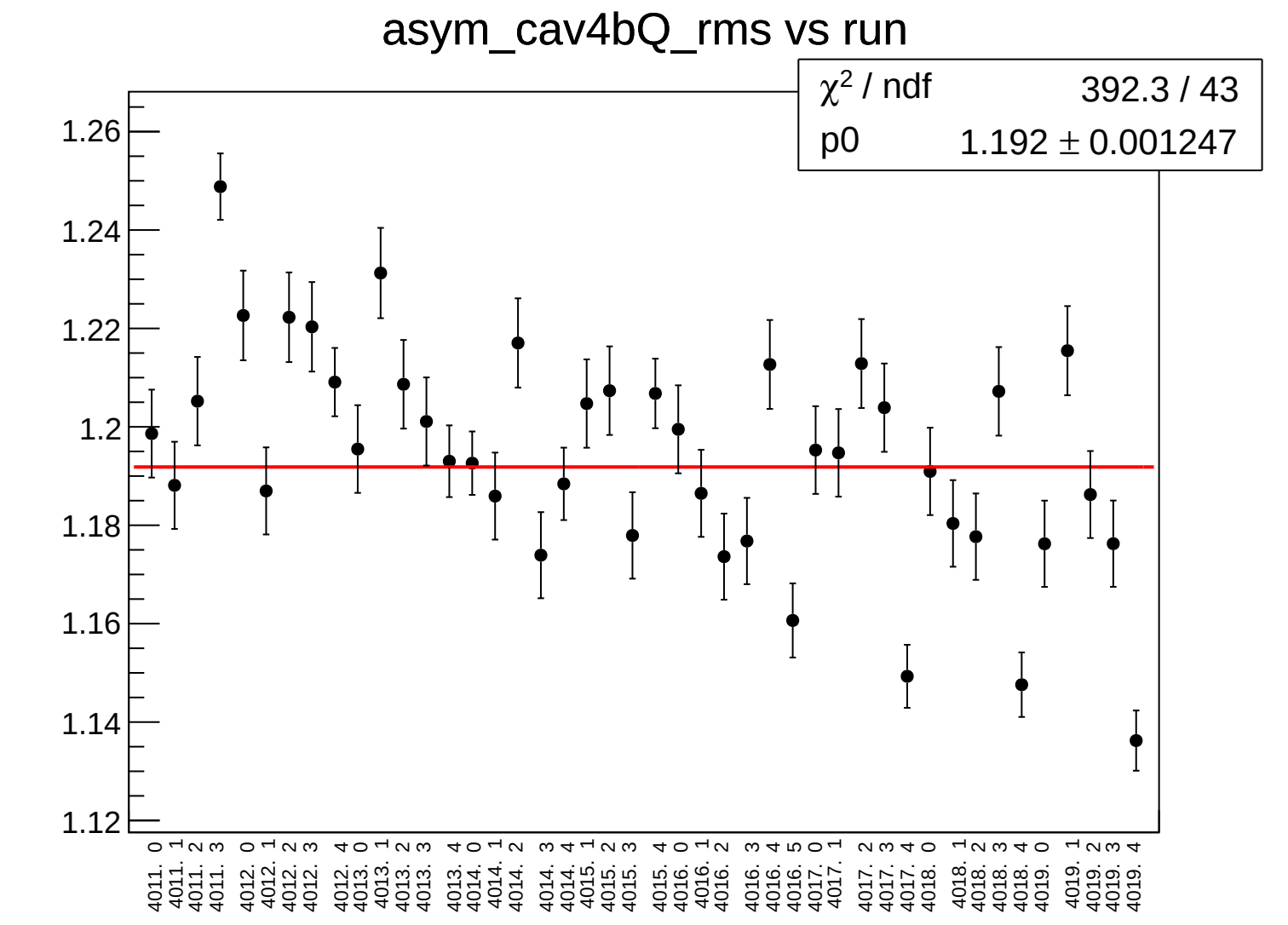

asym_bcm_dg_us_rms vs run
χ² / ndf 3926 / 43
p0 156.6 ± 0.1642
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

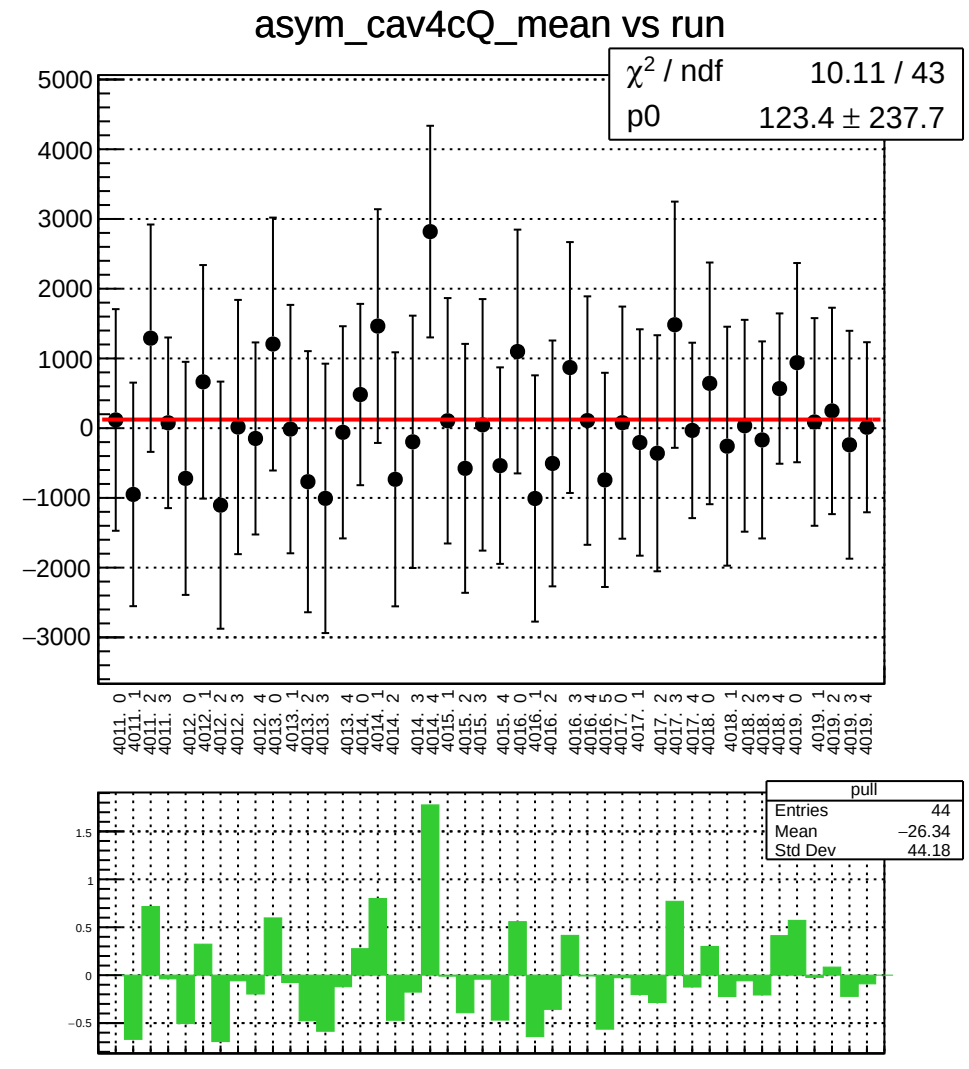

asym_bcm_dg_ds_mean vs run
χ² / ndf 9.293 / 43
p0 61.57 ± 228.9
4000
3000
2000
1000
0
−1000
−2000
−3000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 81.57
Std Dev 52.23
1.5
1
0.5
0
−0.5
pull1D
Entries 44
Mean −0.006595
Std Dev 0.4595
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

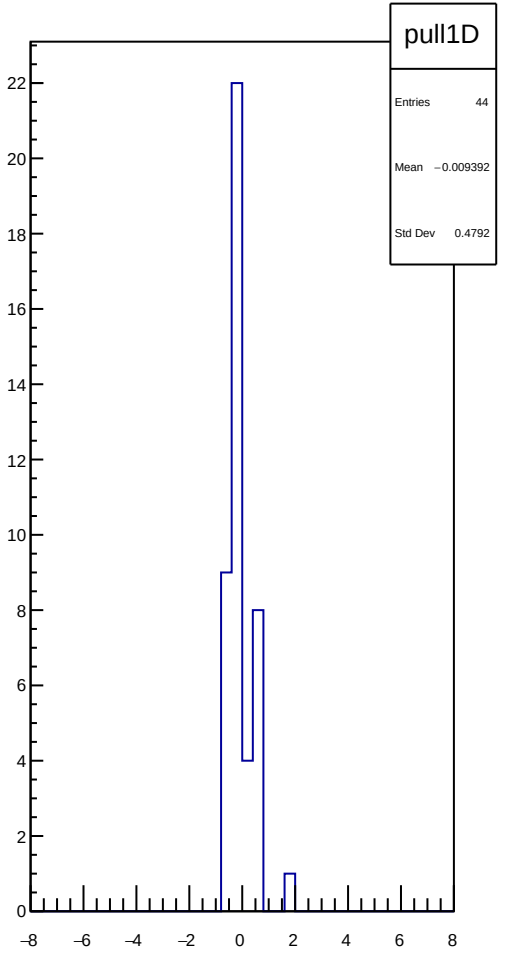

asym_bcm_dg_ds_rms vs run
χ² / ndf 5493 / 43
p0 154.3 ± 0.1619
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

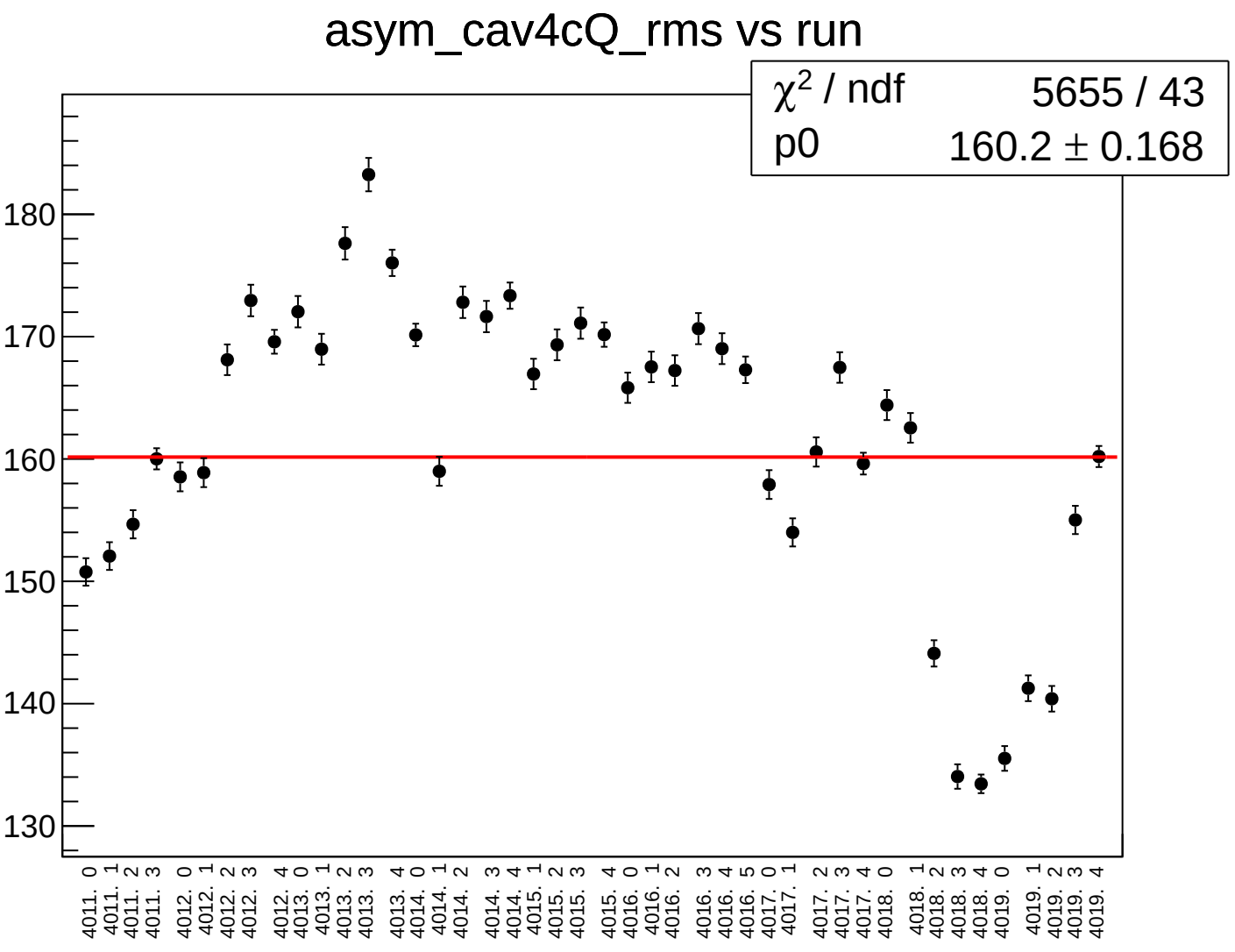

asym_cav4bQ_mean vs run
χ² / ndf 57.21 / 43
p0 −1.922 ± 1.763
40
20
0
−20
−40
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 618.8
Std Dev 595.1
3
2
1
0
−1
−2

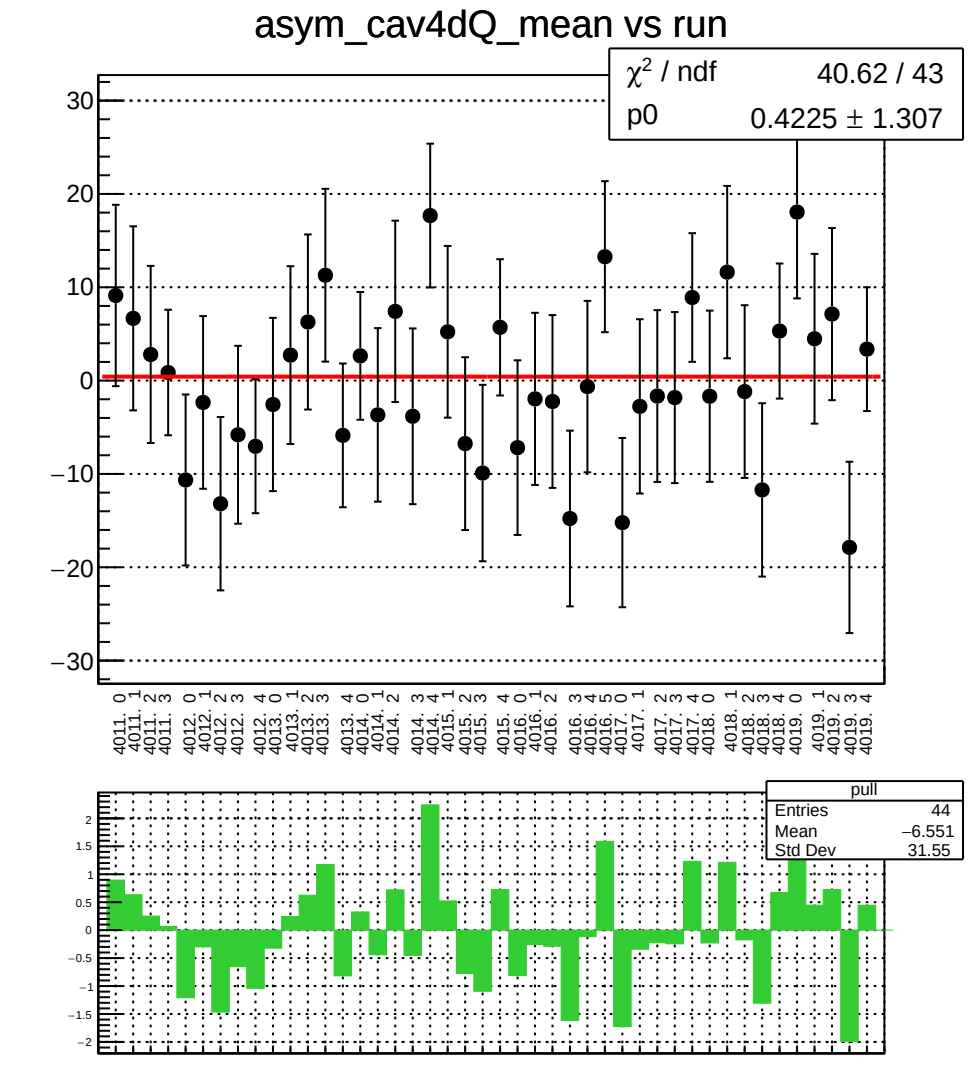

pull1D
Entries 44
Mean −0.008777
Std Dev 1.14
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

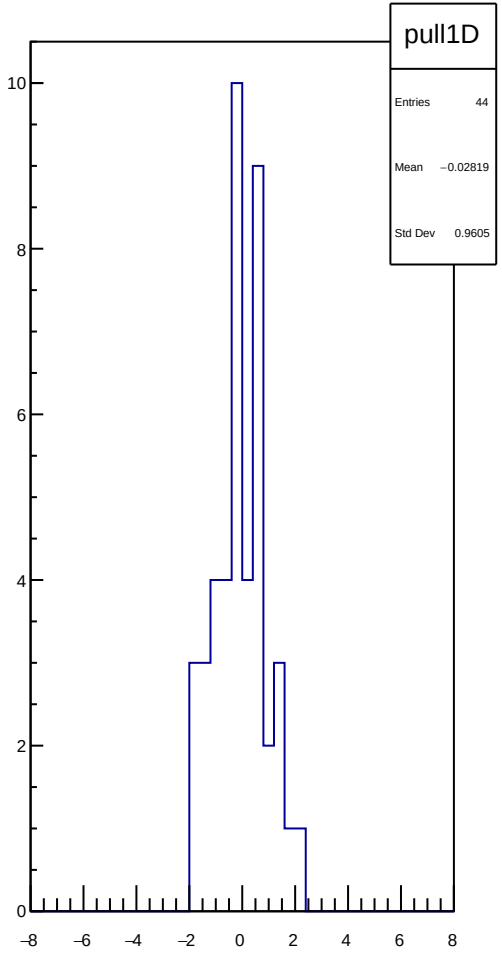

asym_cav4bQ_rms vs run
χ² / ndf 392.3 / 43
p0 1.192 ± 0.001247
1.26
1.24
1.22
1.2
1.18
1.16
1.14
1.12
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

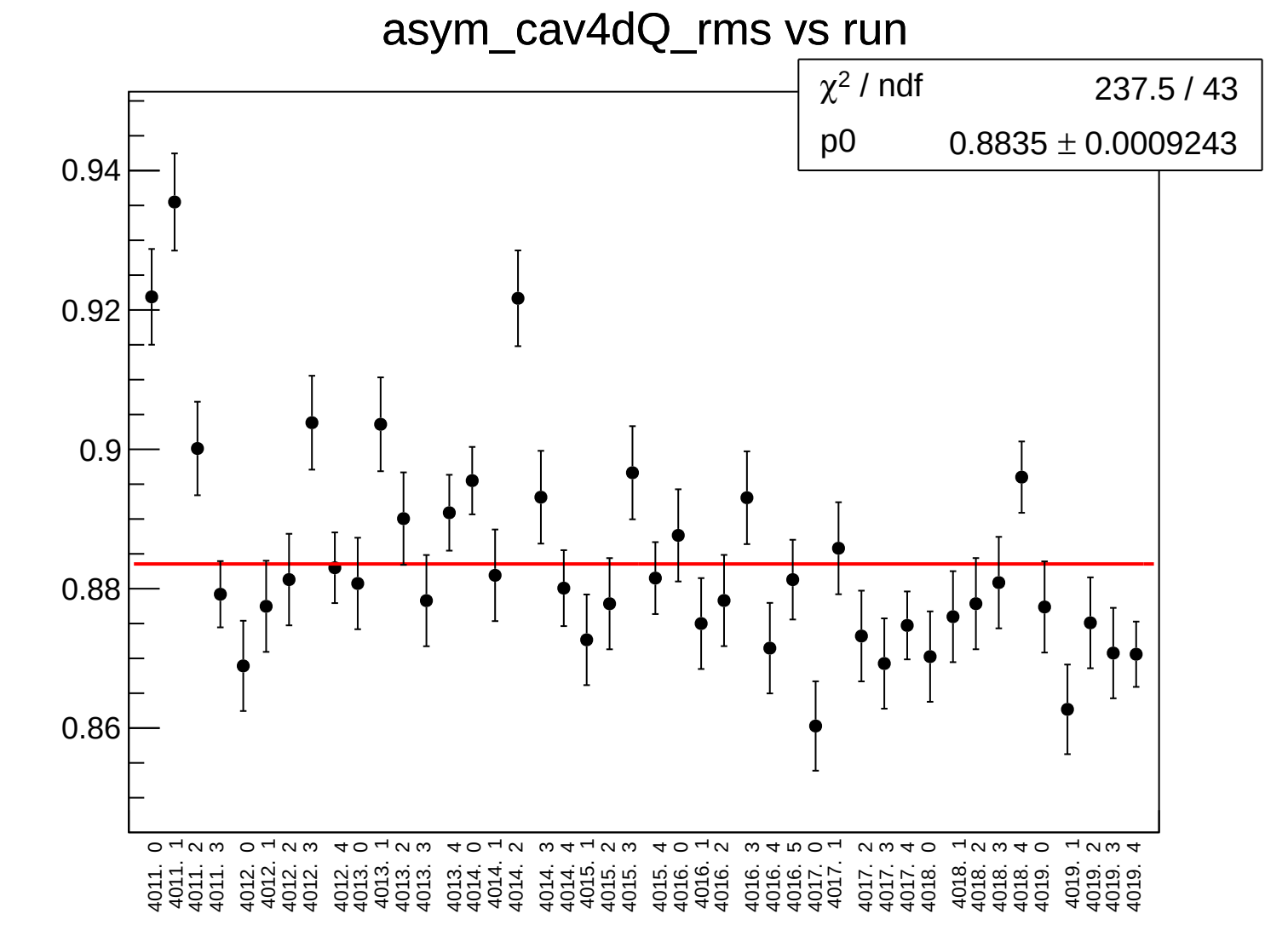

asym_cav4cQ_mean vs run
χ² / ndf 10.11 / 43
p0 123.4 ± 237.7
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −26.34
Std Dev 44.18
1.5
1
0.5
0
−0.5

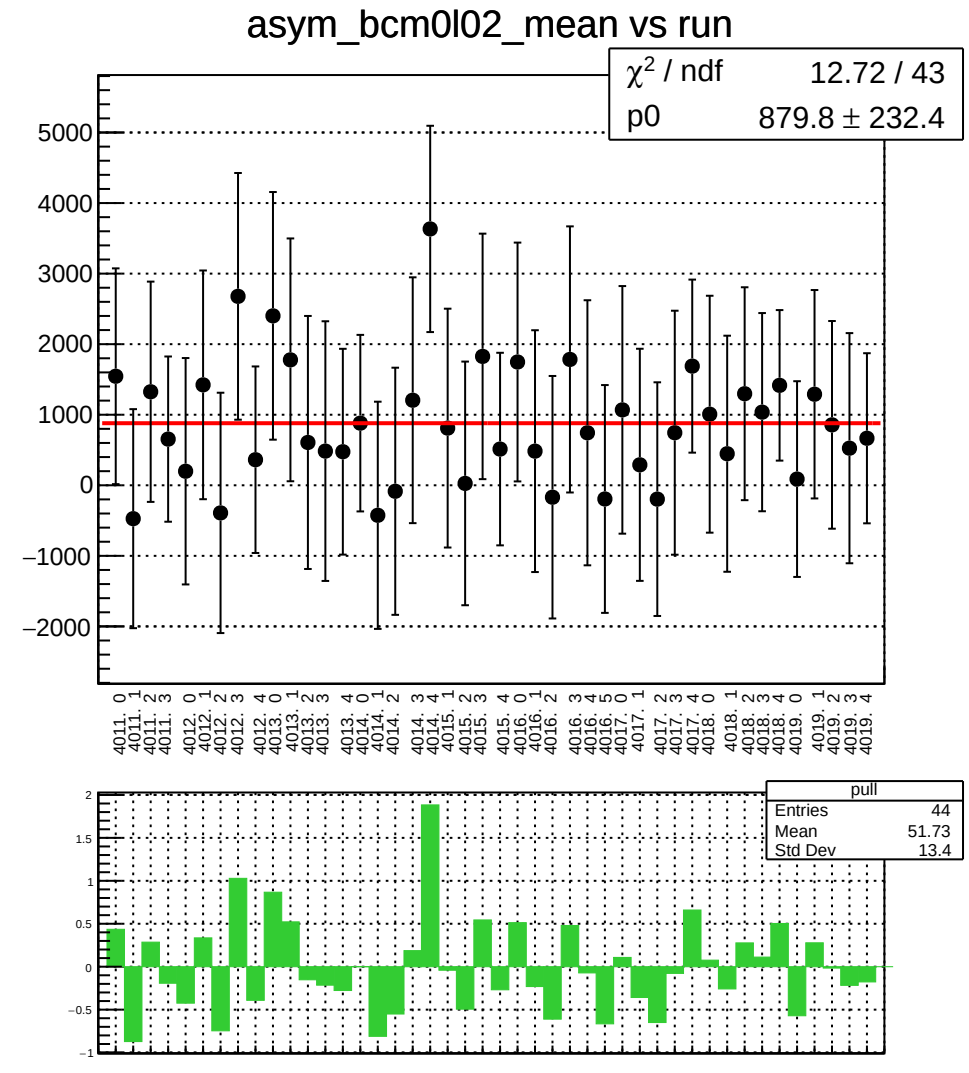

pull1D
Entries 44
Mean −0.009392
Std Dev 0.4792
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

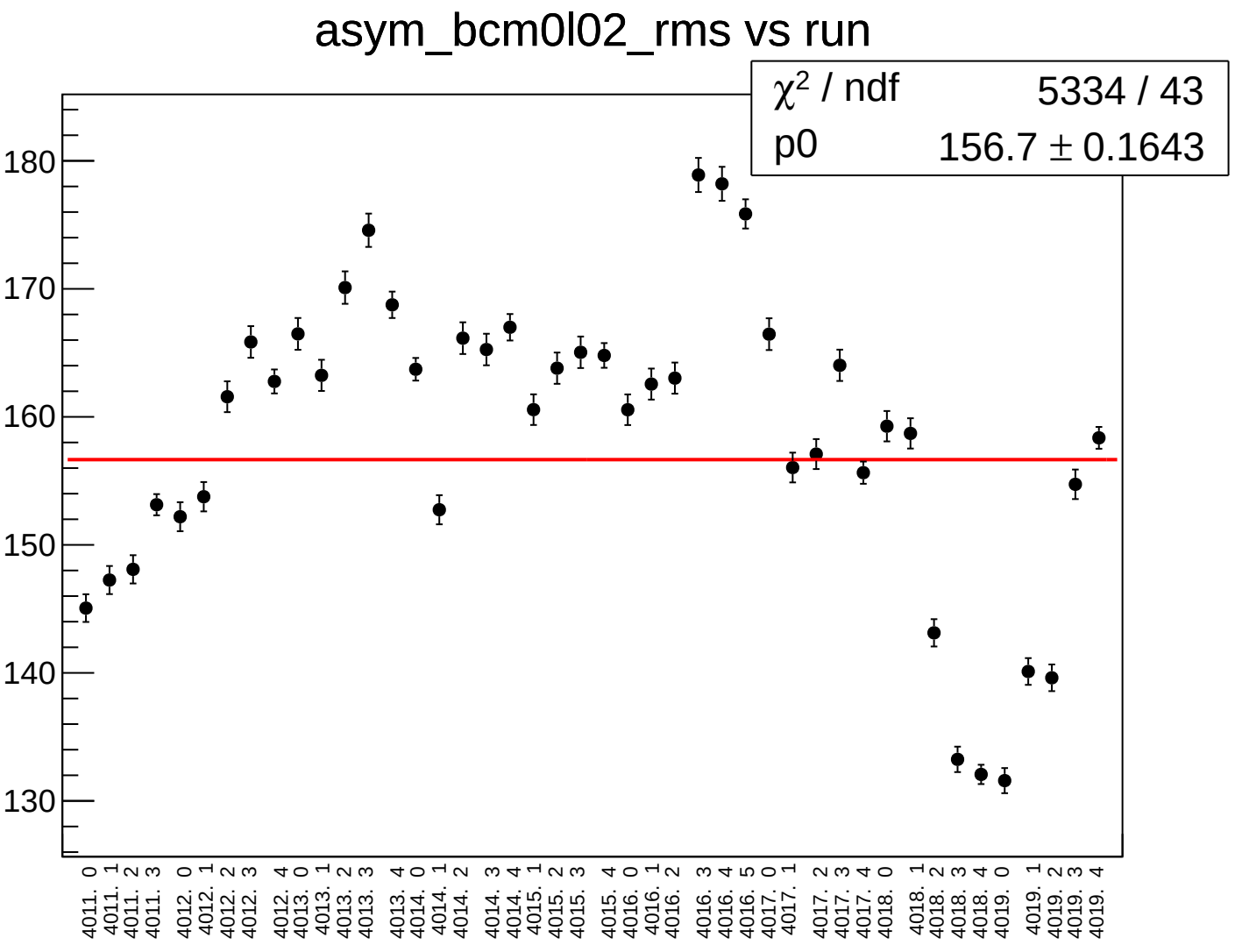

asym_cav4cQ_rms vs run
χ² / ndf 5655 / 43
p0 160.2 ± 0.168
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

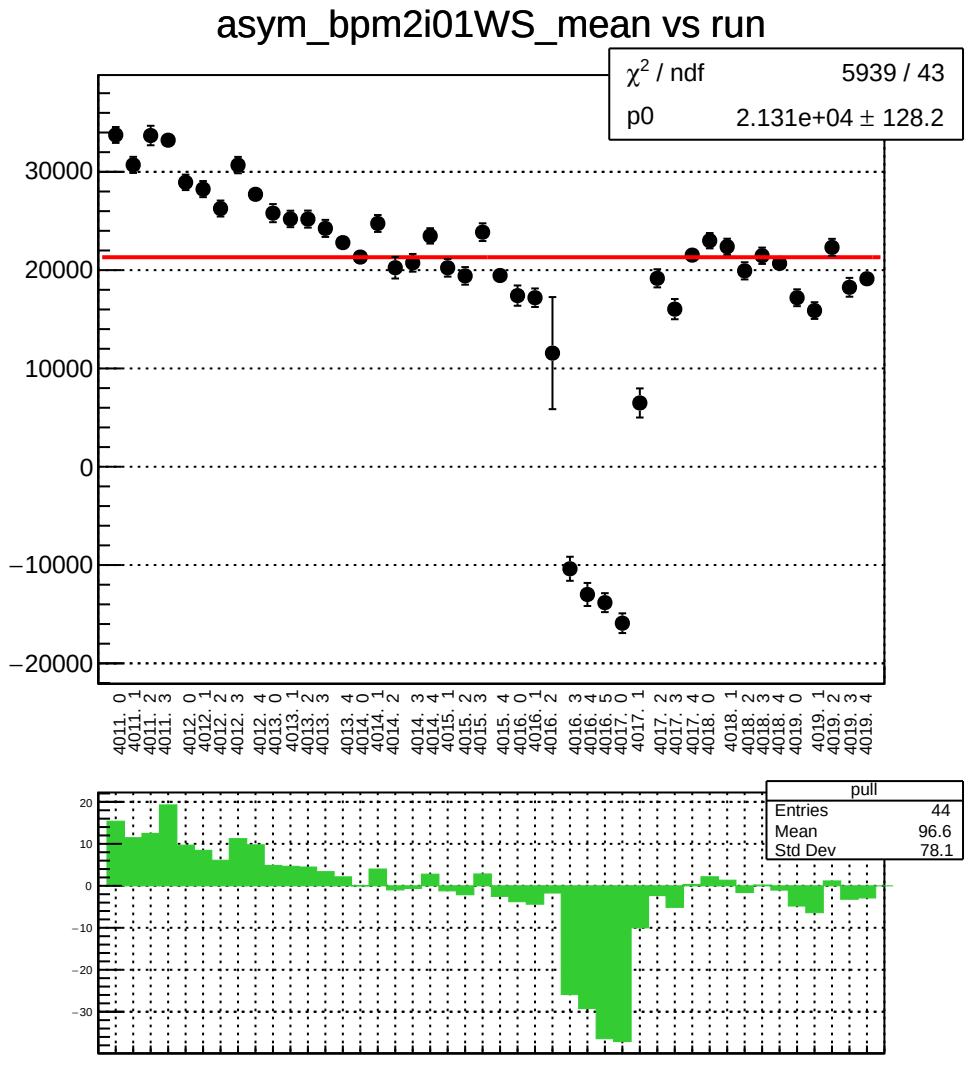

asym_cav4dQ_mean vs run
χ² / ndf 40.62 / 43
p0 0.4225 ± 1.307
pull
Entries 44
Mean −6.551
Std Dev 31.55

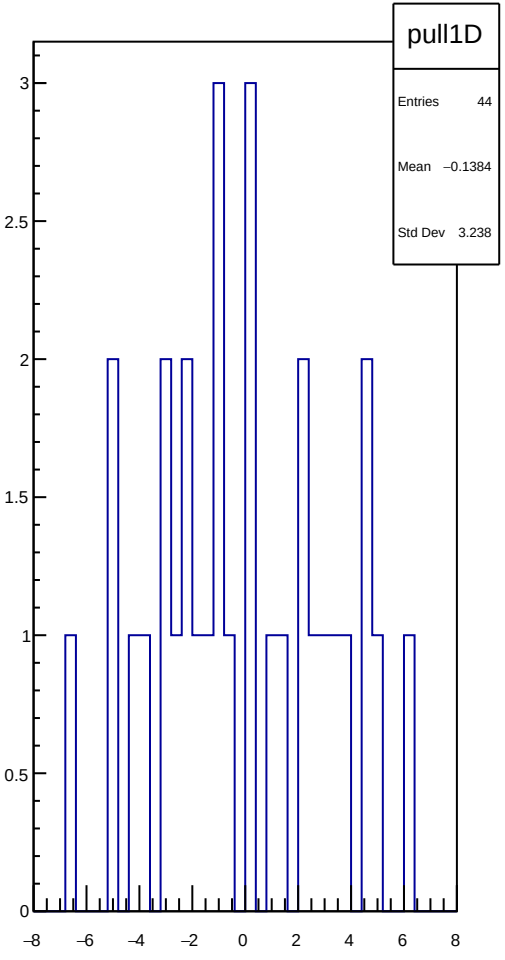

pull1D
Entries 44
Mean −0.02819
Std Dev 0.9605

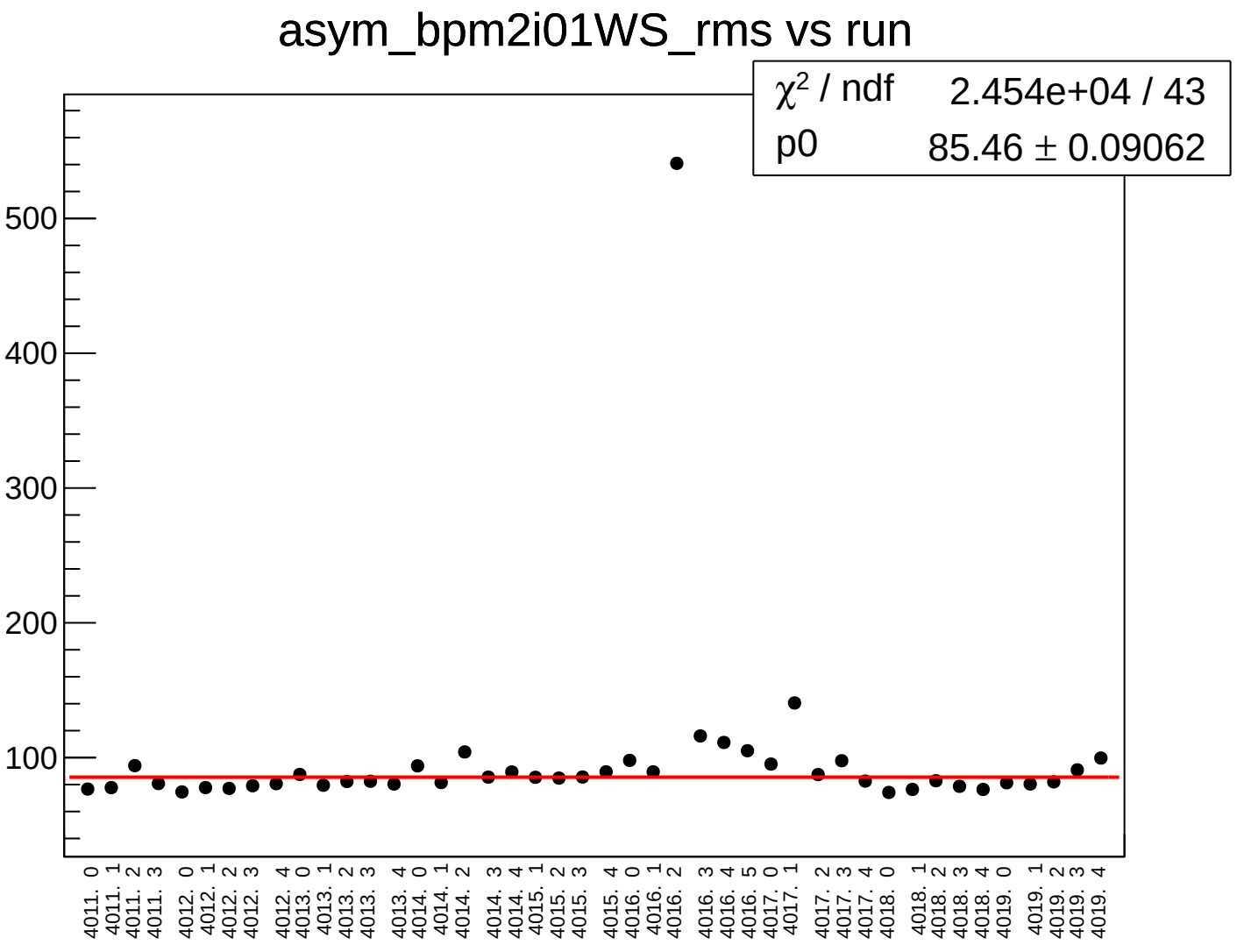

asym_cav4dQ_rms vs run
χ² / ndf 237.5 / 43
p0 0.8835 ± 0.0009243
0.94
0.92
0.9
0.88
0.86
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

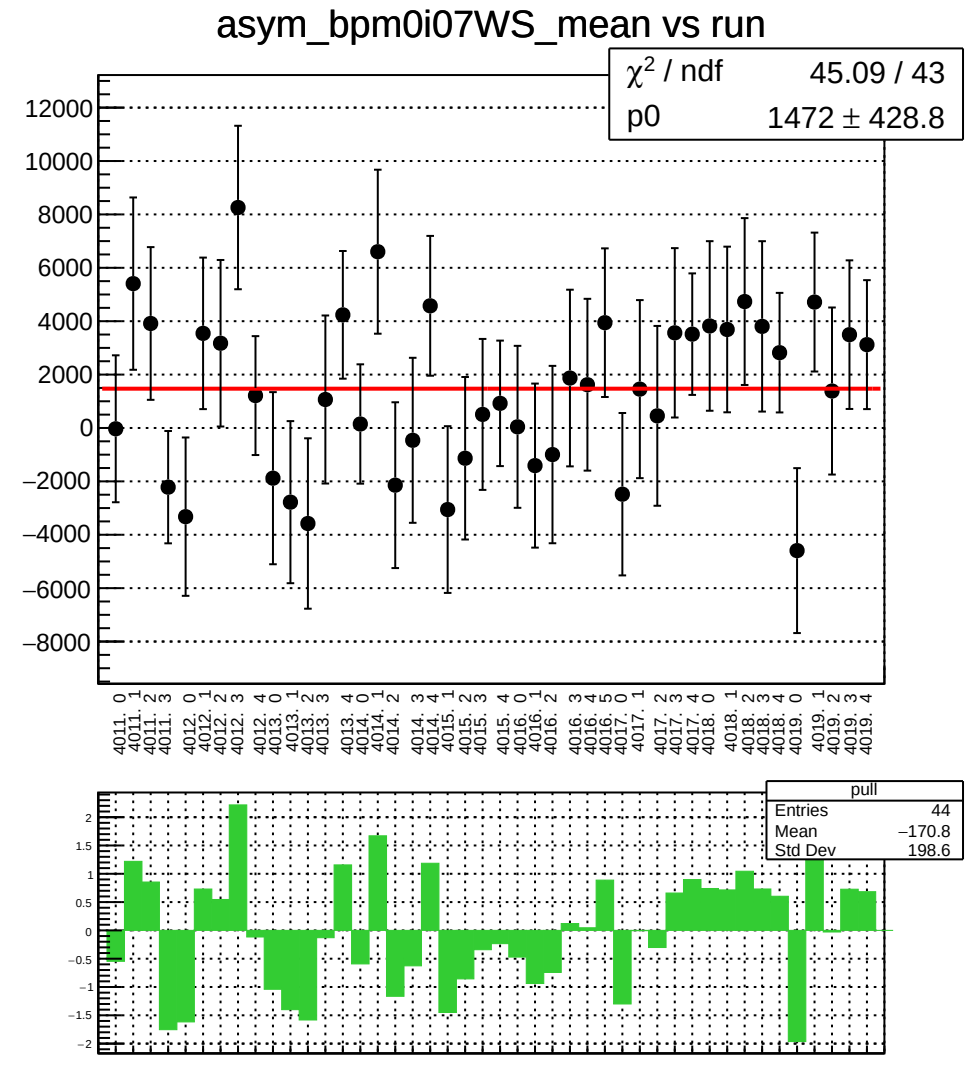

asym_bcm0l02_mean vs run
χ^2 / ndf 12.72 / 43
p0 879.8 ± 232.4
5000
4000
3000
2000
1000
0
−1000
−2000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 51.73
Std Dev 13.4
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 44
Mean −0.005566
Std Dev 0.5377
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

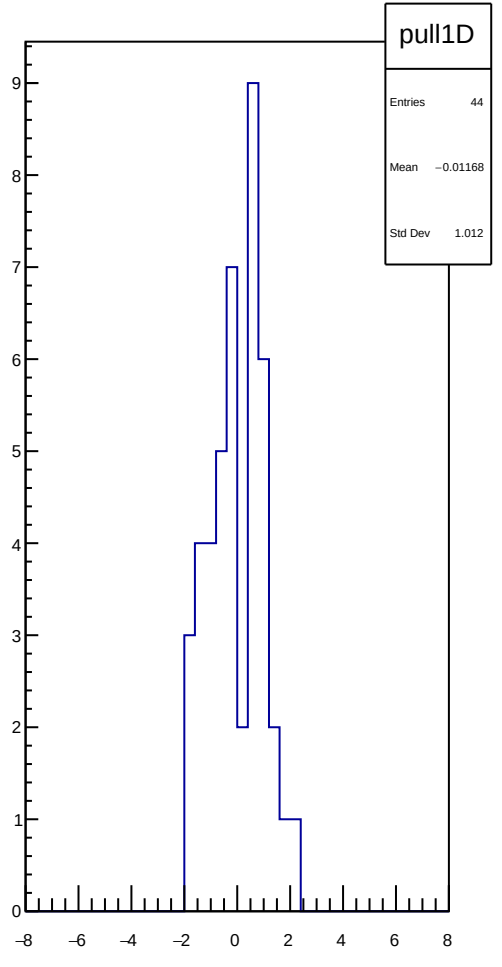

asym_bcm0l02_rms vs run
χ² / ndf 5334 / 43
p0 156.7 ± 0.1643
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

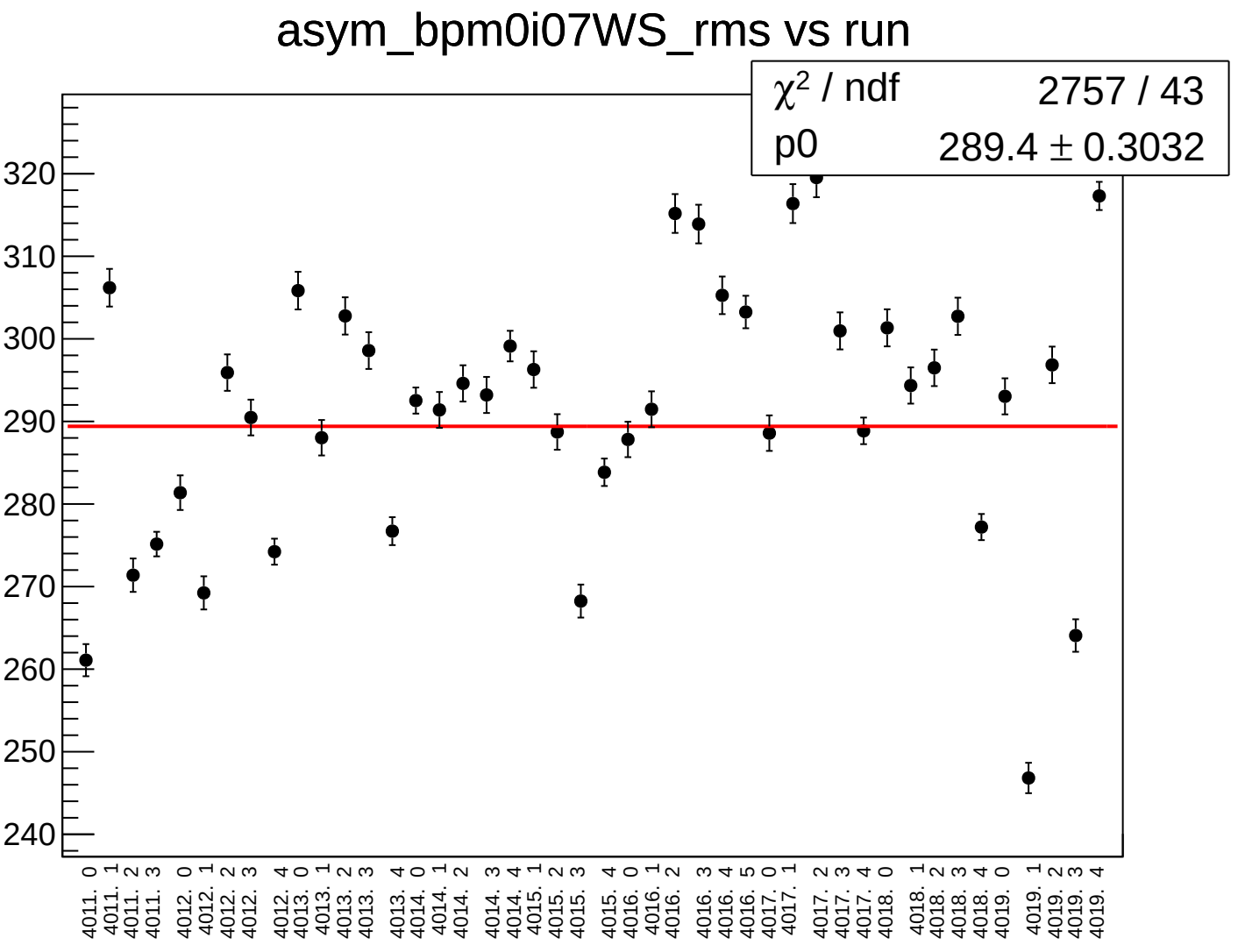

asym_bpm2i01WS_mean vs run
χ² / ndf 5939 / 43
p0 2.131e+04 ± 128.2
30000
20000
10000
0
−10000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 96.6
Std Dev 78.1
20
10
0
−10
−20
−30

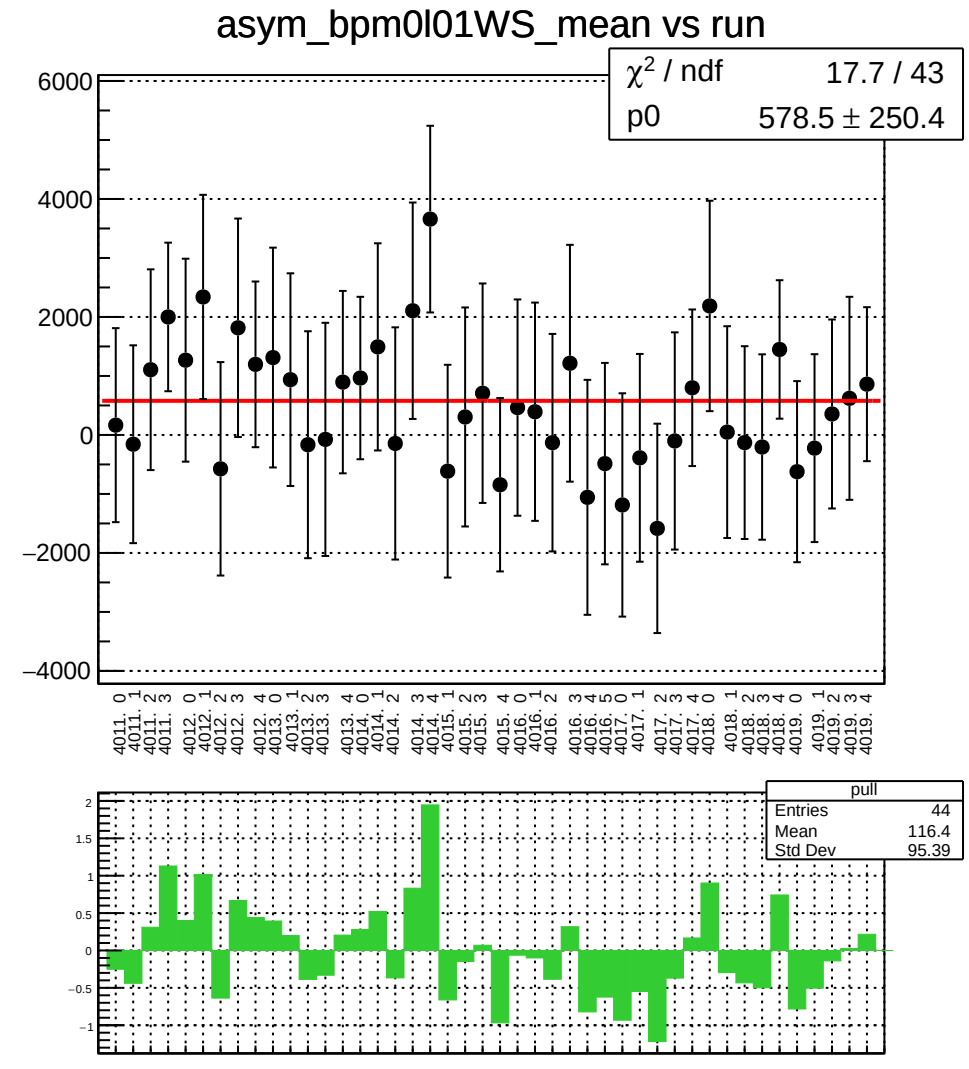

pull1D
Entries 44
Mean −0.1384
Std Dev 3.238
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

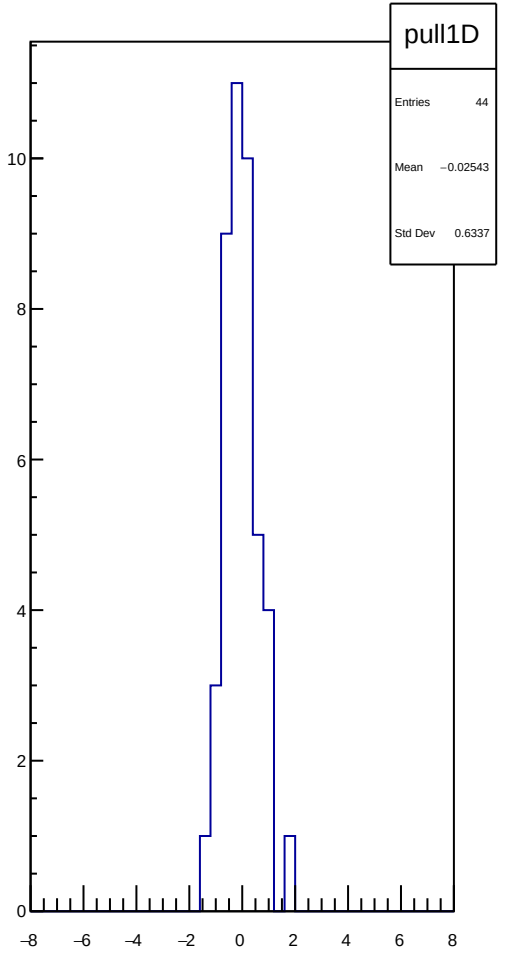

asym_bpm2i01WS_rms vs run
χ² / ndf 2.454e+04 / 43
p0 85.46 ± 0.09062
500
400
300
200
100
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

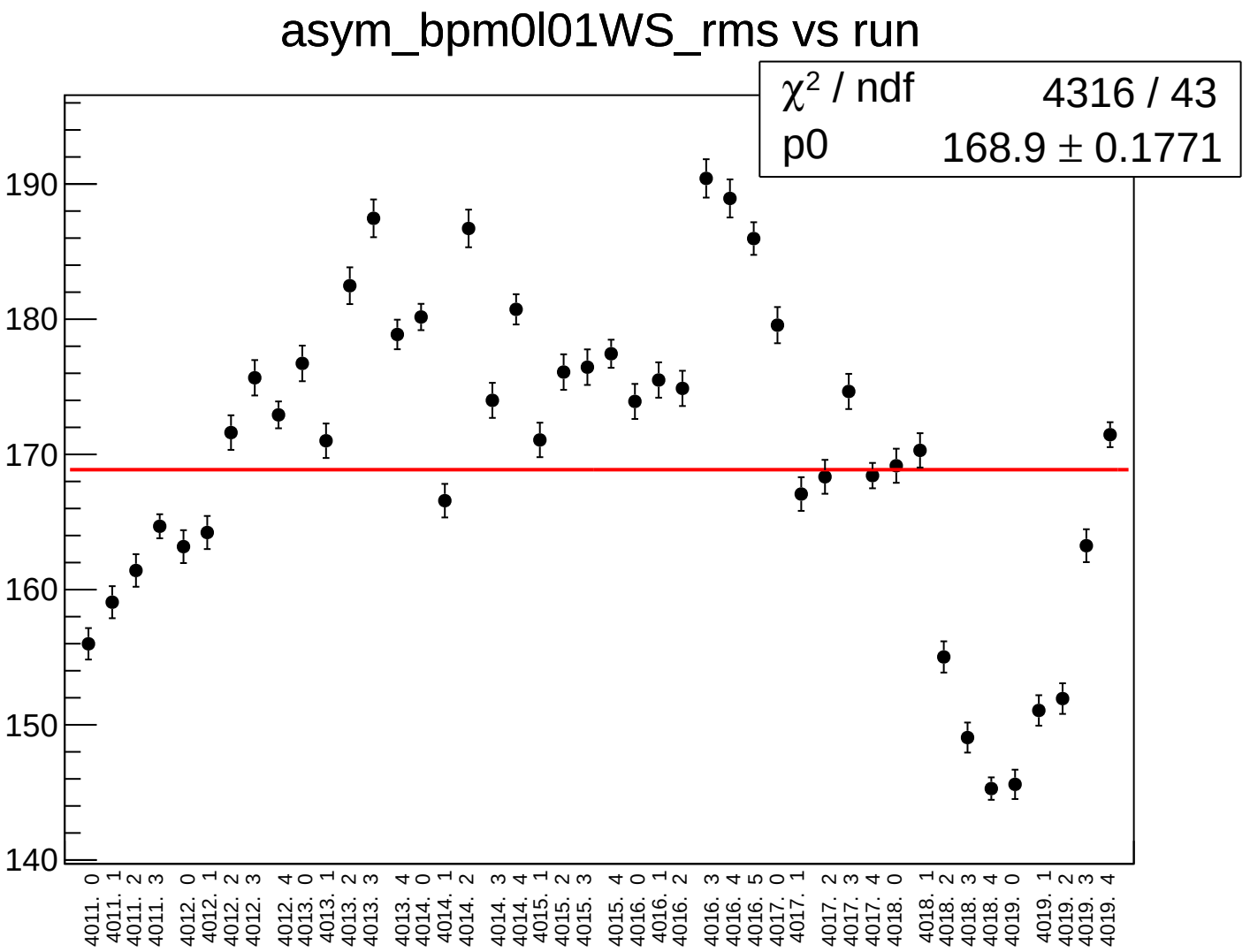

asym_bpm0i07WS_mean vs run
χ² / ndf 45.09 / 43
p0 1472 ± 428.8
pull
Entries 44
Mean −170.8
Std Dev 198.6

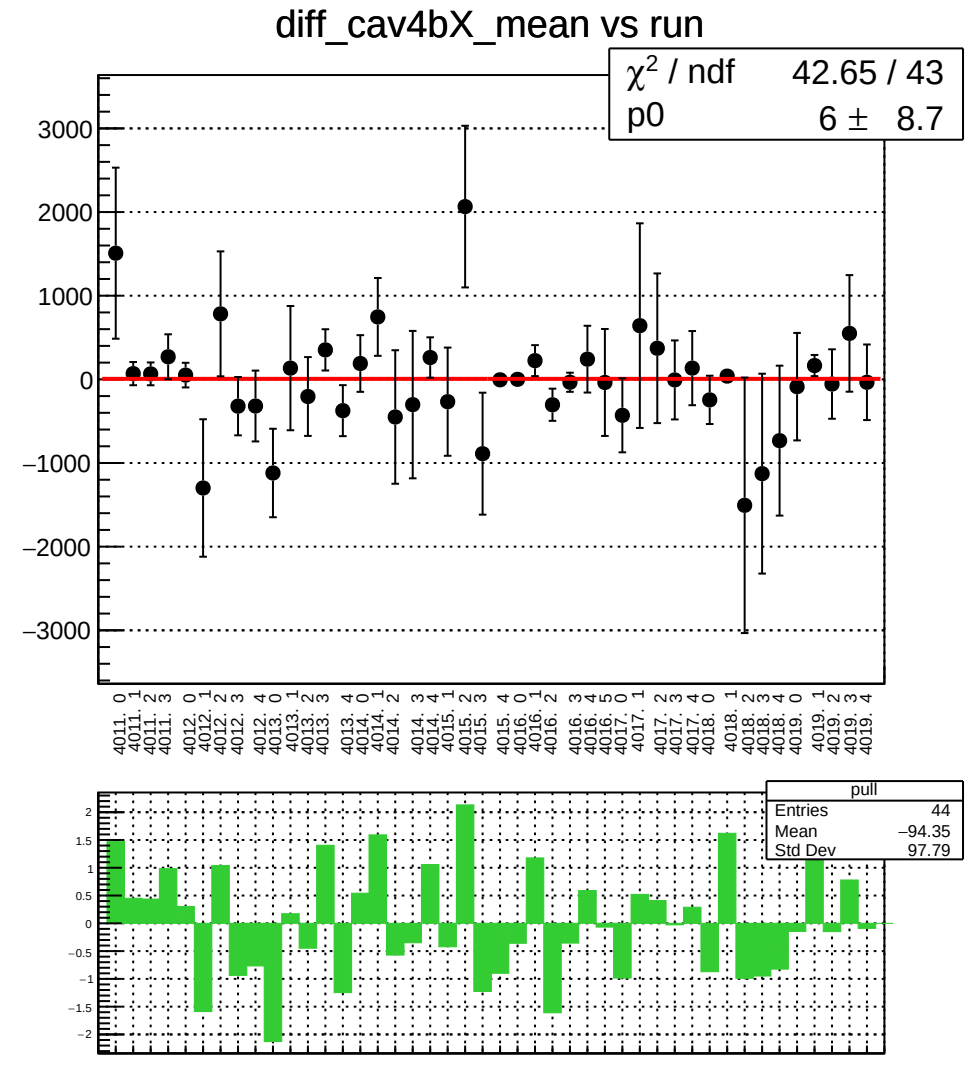

pull1D
Entries 44
Mean −0.01168
Std Dev 1.012

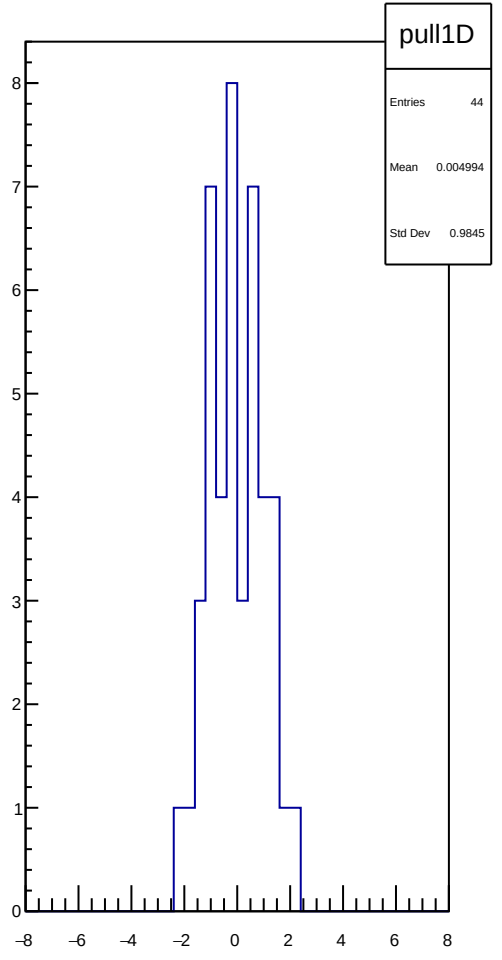

asym_bpm0i07WS_rms vs run
χ² / ndf 2757 / 43
p0 289.4 ± 0.3032
320
310
300
290
280
270
260
250
240
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

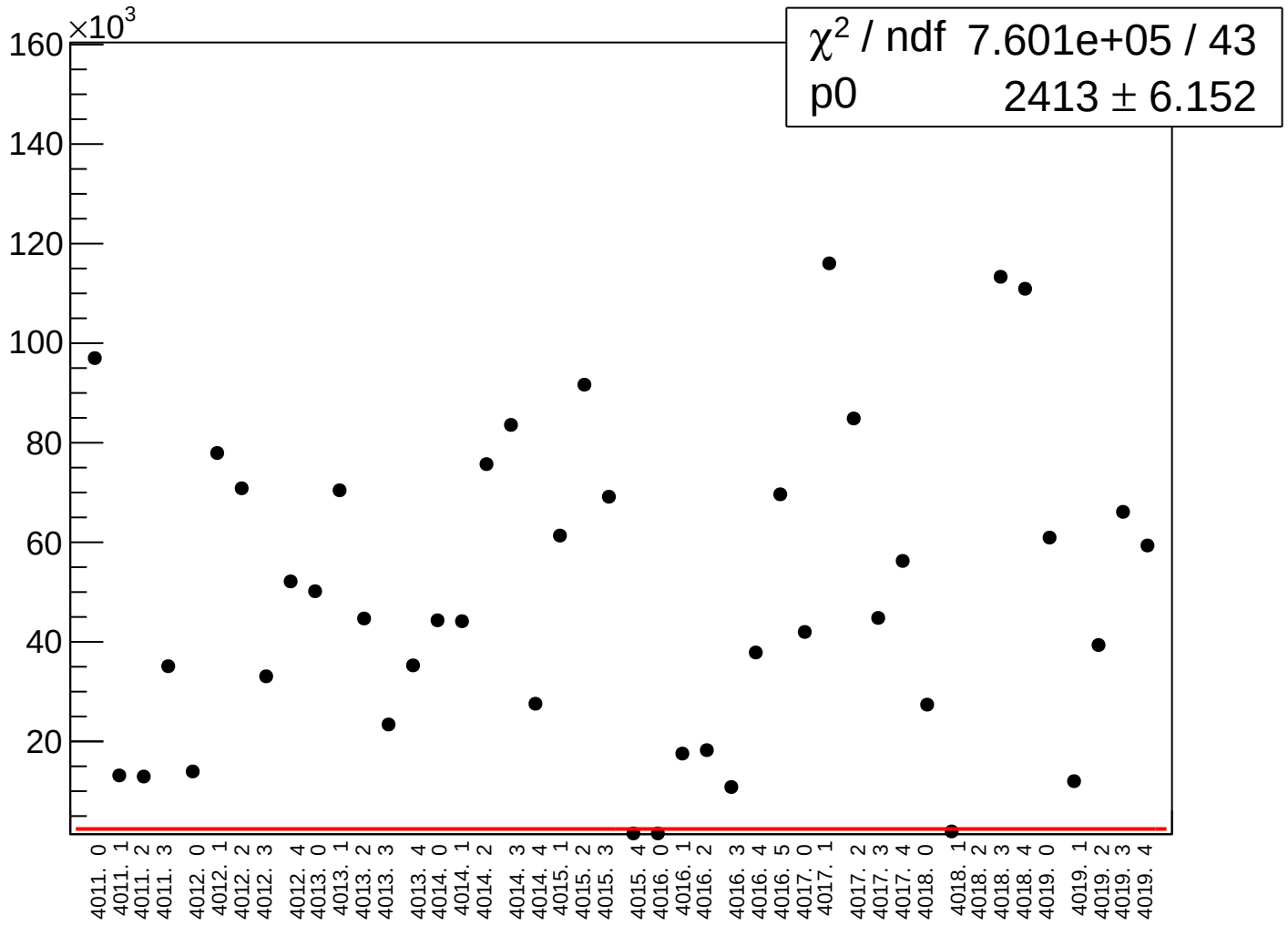

asym_bpm0l01WS_mean vs run
χ² / ndf 17.7 / 43
p0 578.5 ± 250.4
6000
4000
2000
0
−2000
−4000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 116.4
Std Dev 95.39
2
1.5
1
0.5
0
−0.5
−1

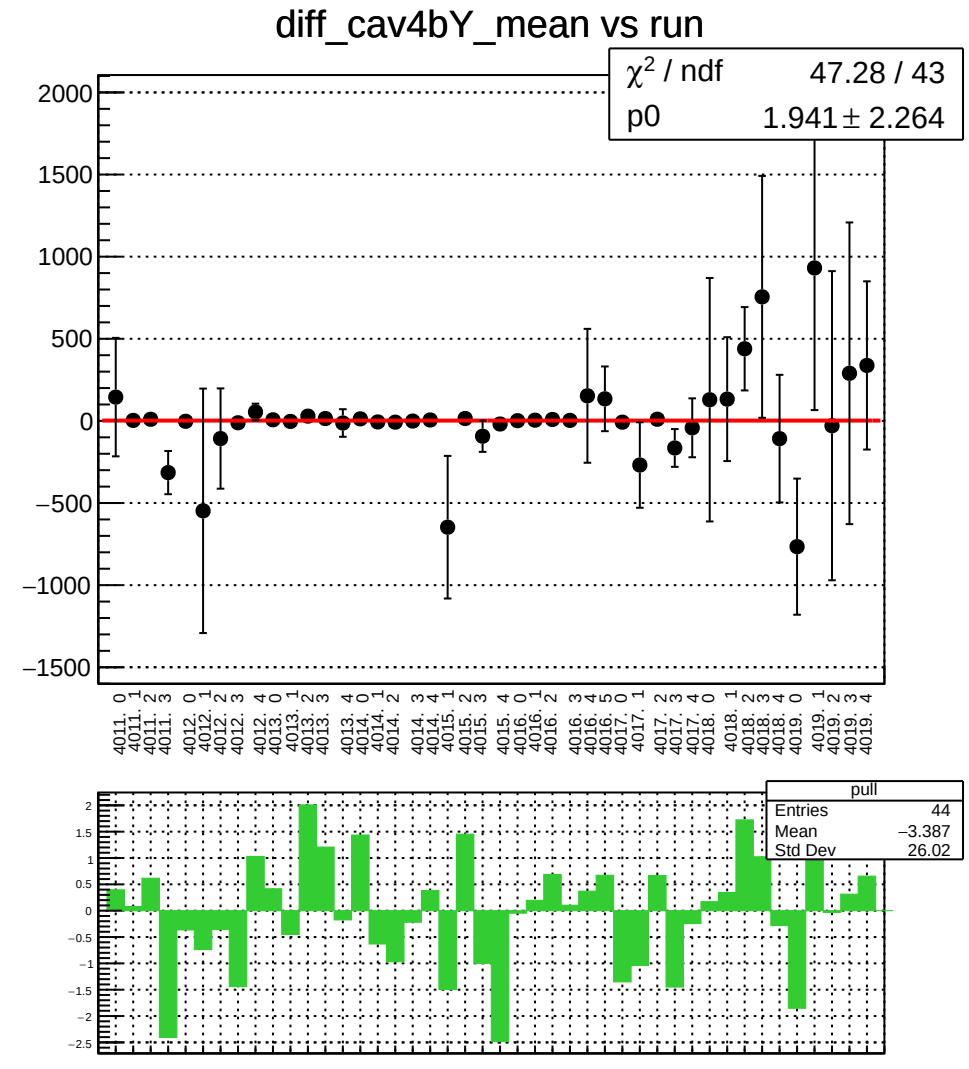

pull1D
Entries 44
Mean −0.02543
Std Dev 0.6337
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

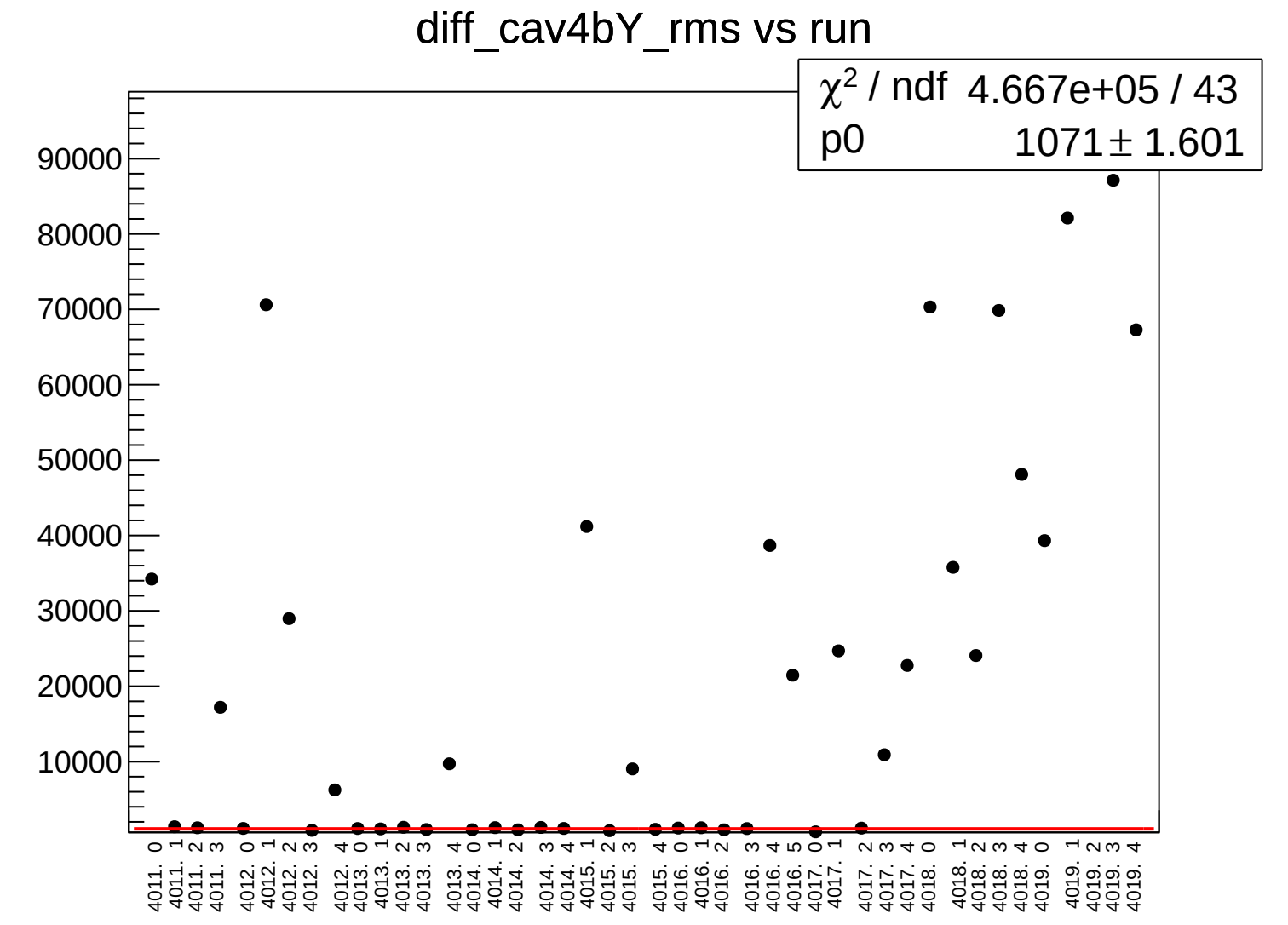

asym_bpm0l01WS_rms vs run
χ² / ndf 4316 / 43
p0 168.9 ± 0.1771
190
180
170
160
150
140
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

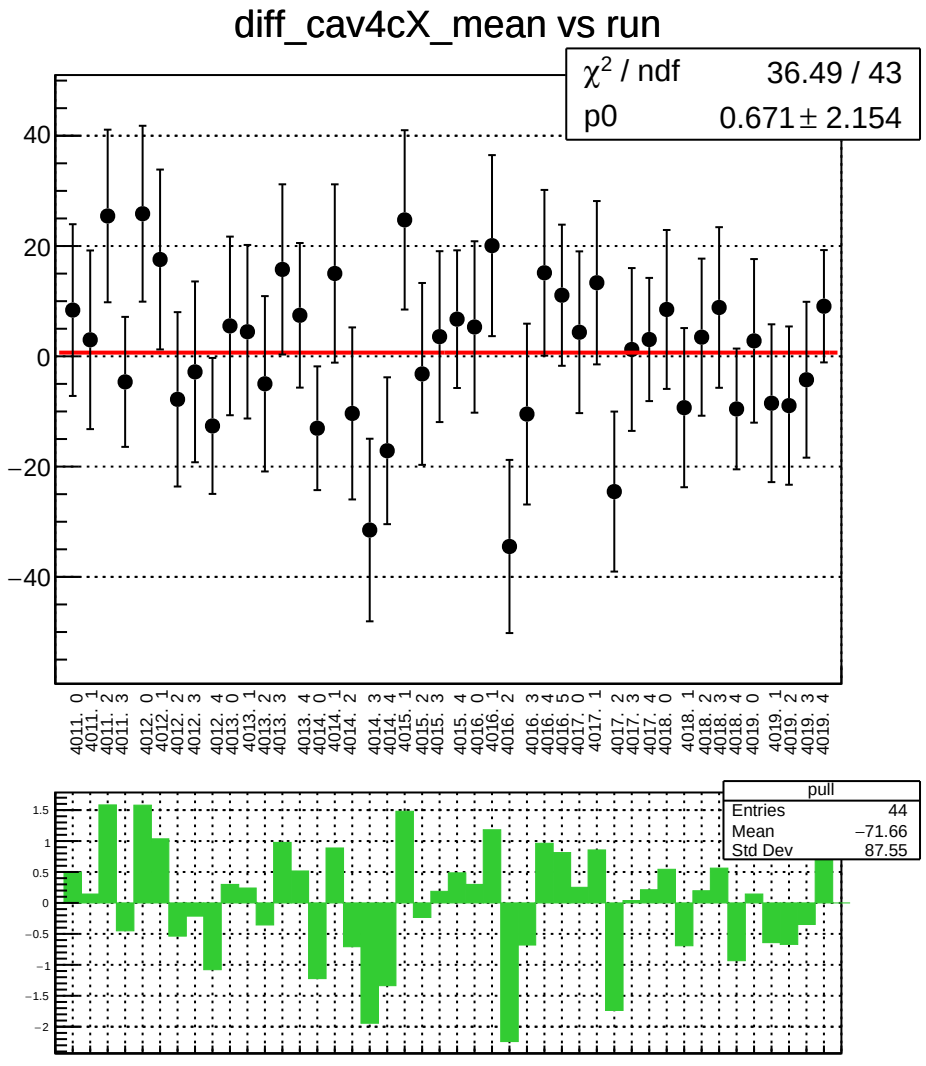

diff_cav4bX_mean vs run
χ² / ndf 42.65 / 43
p0 6 ± 8.7
3000
2000
1000
0
−1000
−2000
−3000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −94.35
Std Dev 97.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

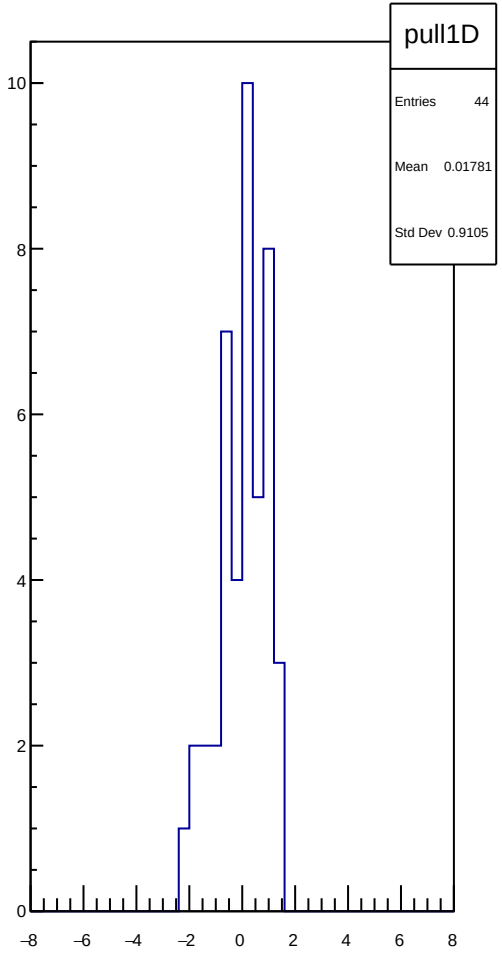

pull1D
Entries 44
Mean 0.004994
Std Dev 0.9845
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

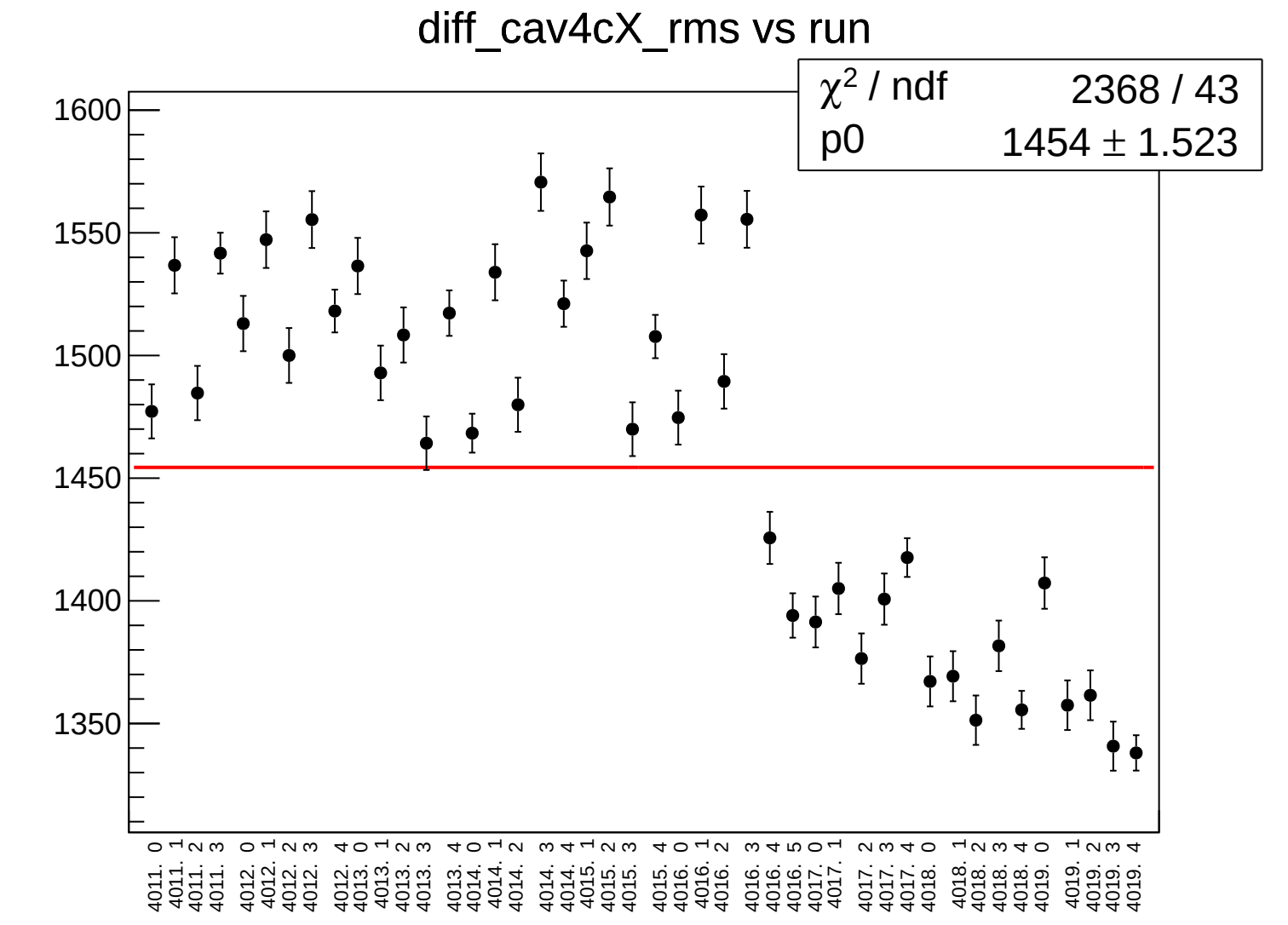

diff_cav4bX_rms vs run
χ² / ndf 7.601e+05 / 43
p0 2413 ± 6.152
×10³
160
140
120
100
80
60
40
20
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

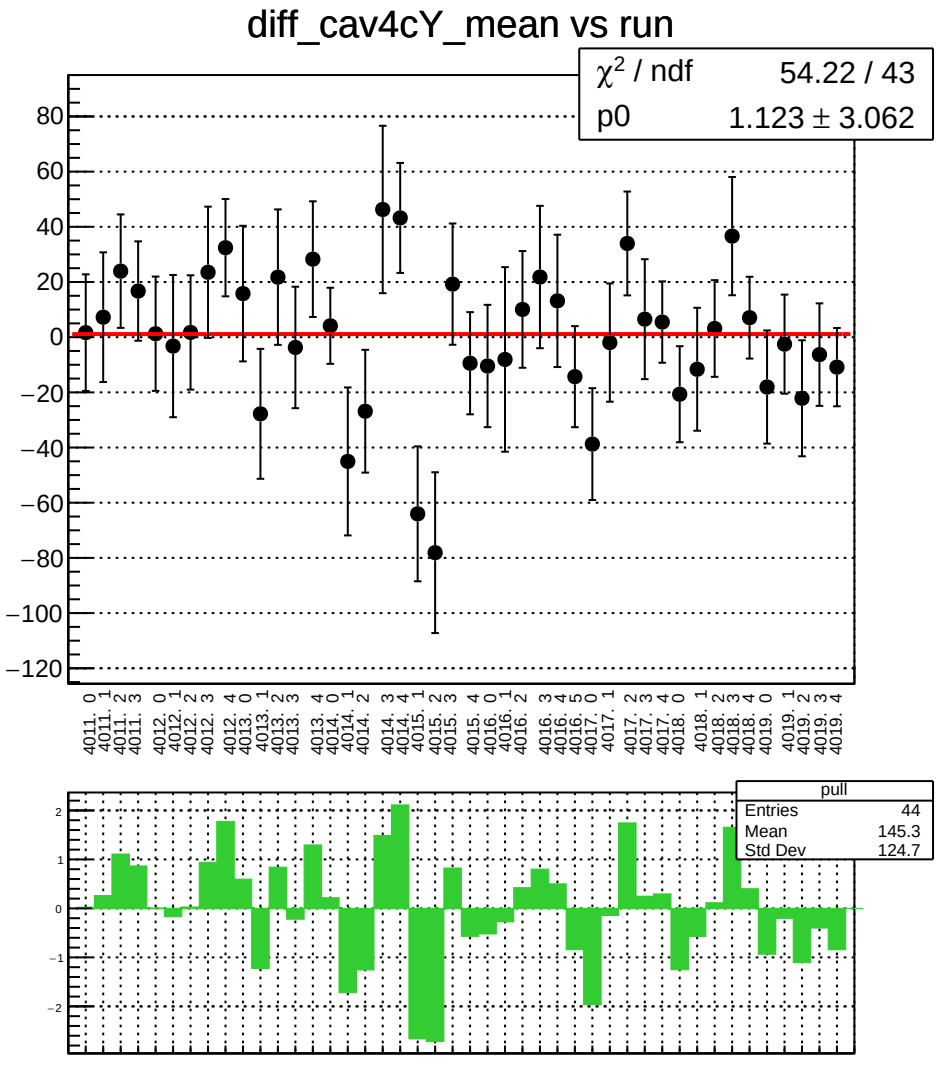

diff_cav4bY_mean vs run
χ^2 / ndf 47.28 / 43
p0 1.941 ± 2.264
2000
1500
1000
500
0
−500
−1000
−1500
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4016. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −3.387
Std Dev 26.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 44
Mean −0.04561
Std Dev 1.036
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

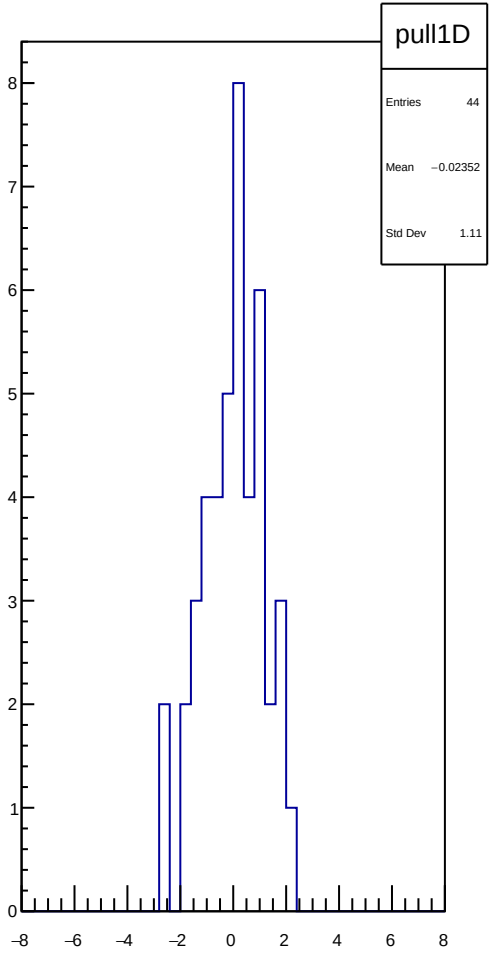

diff_cav4bY_rms vs run
χ² / ndf 4.667e+05 / 43
p0 1071 ± 1.601
90000
80000
70000
60000
50000
40000
30000
20000
10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

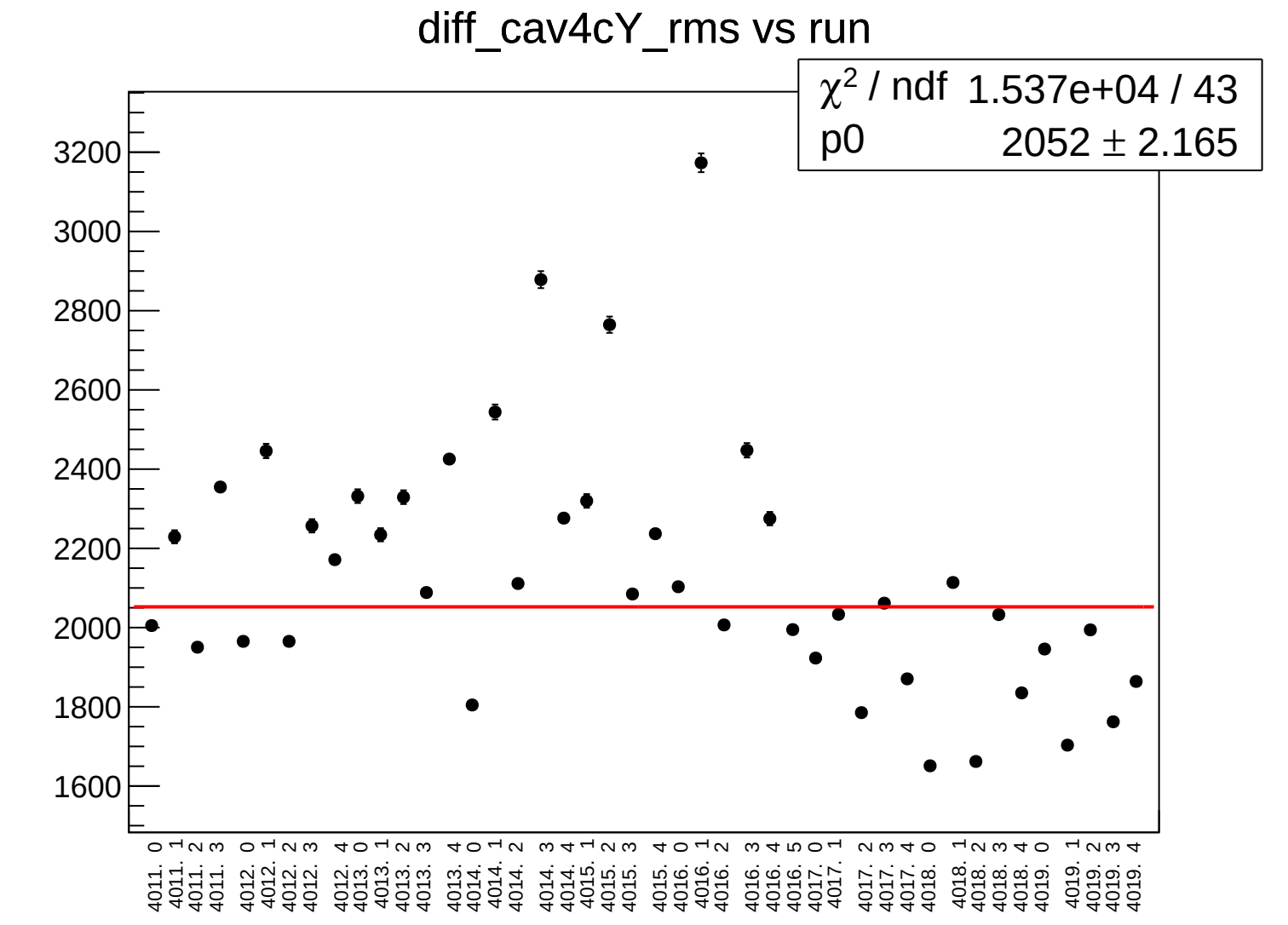

diff_cav4cX_mean vs run
χ² / ndf 36.49 / 43
p0 0.671 ± 2.154
40
20
0
−20
−40
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −71.66
Std Dev 87.55
1.5
1
0.5
0
−0.5
−1
−1.5
−2

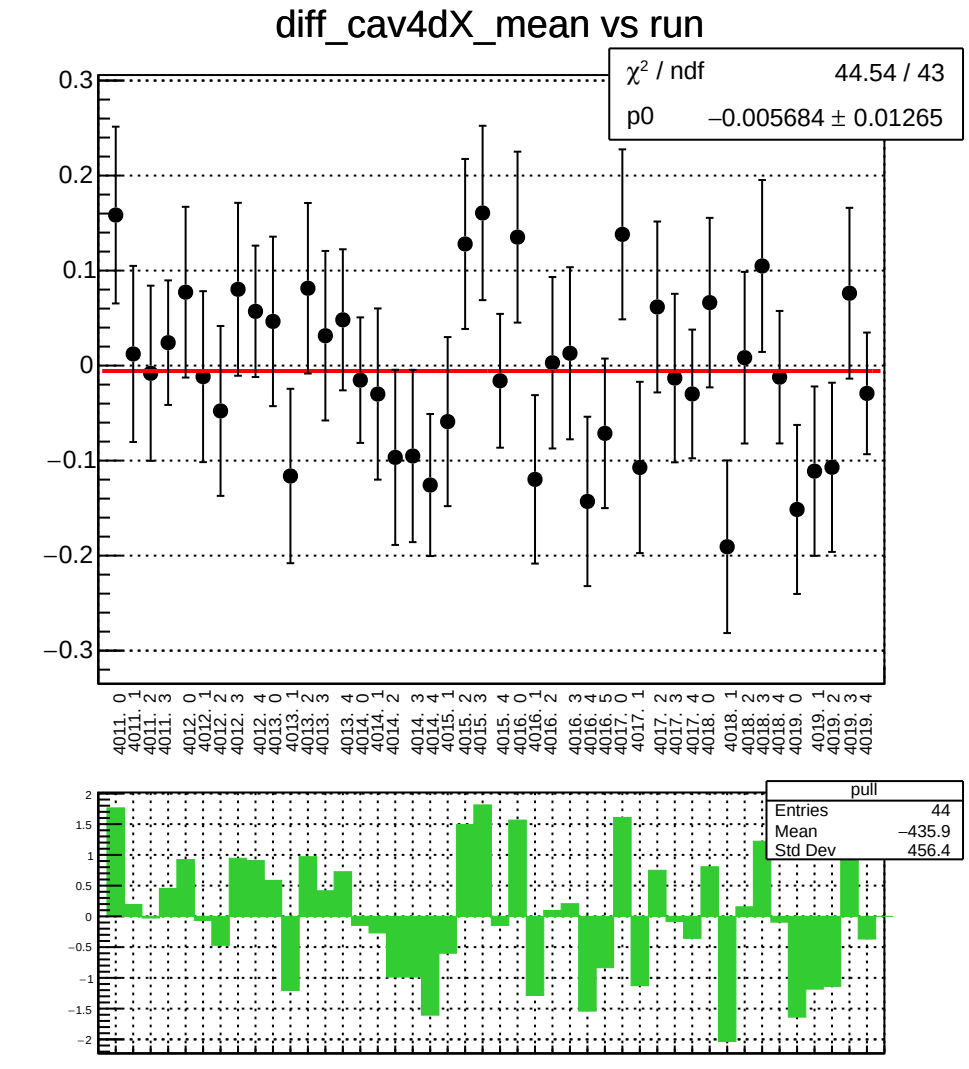

pull1D
Entries 44
Mean 0.01781
Std Dev 0.9105
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

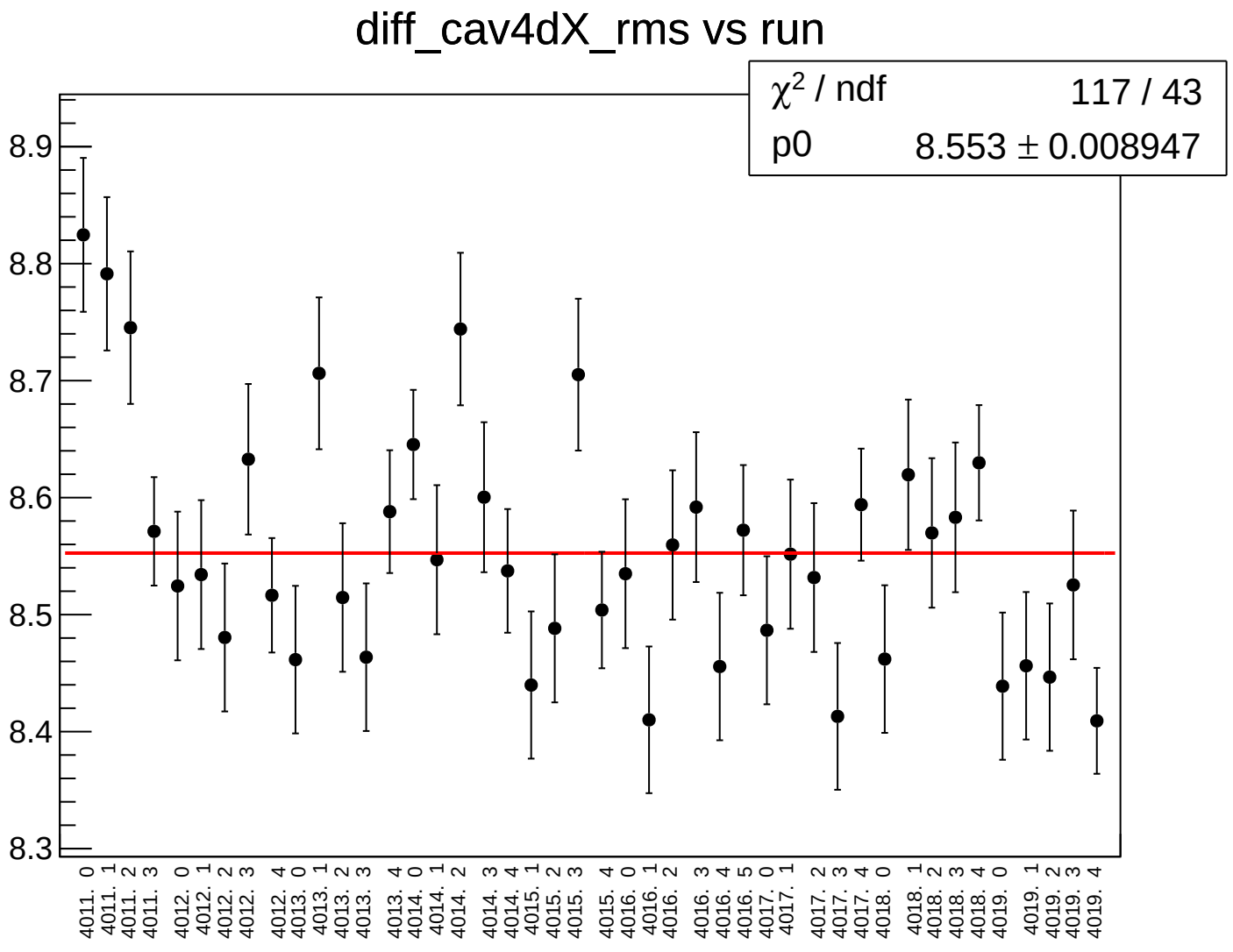

diff_cav4cX_rms vs run
χ² / ndf 2368 / 43
p0 1454 ± 1.523
1600
1550
1500
1450
1400
1350
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

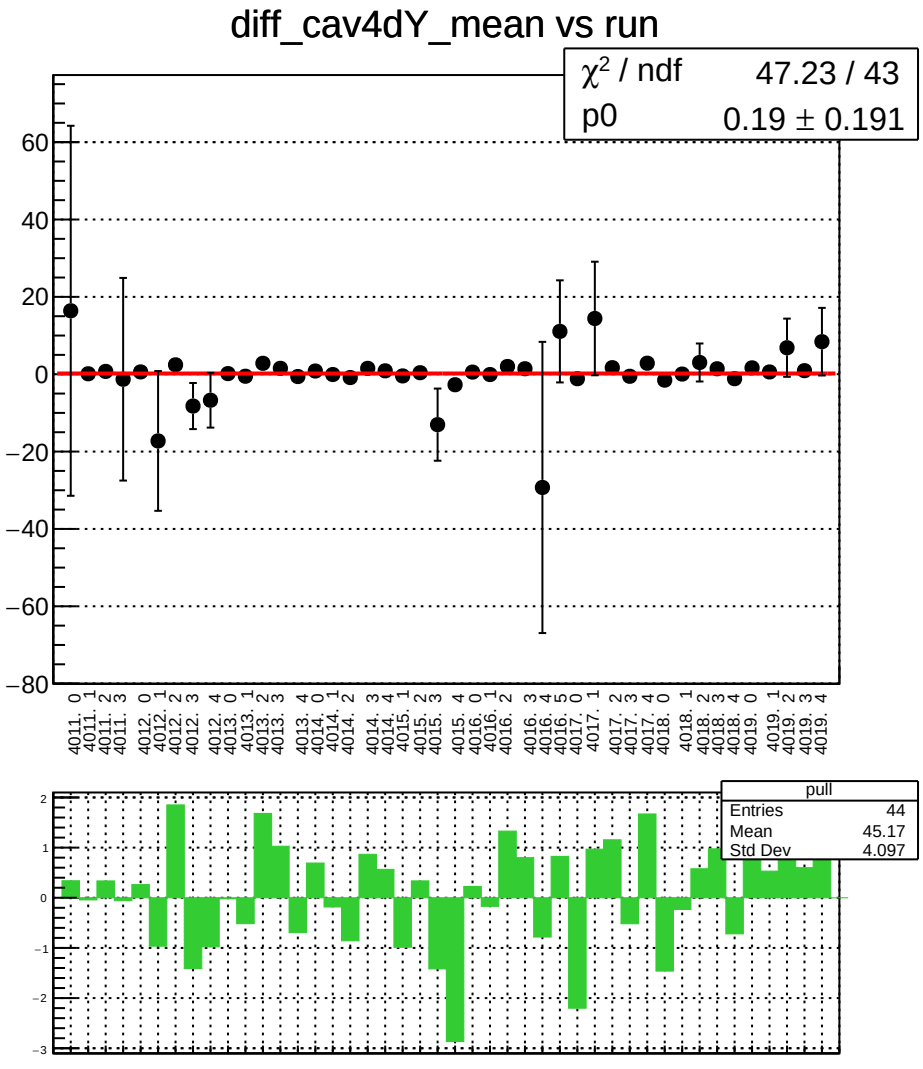

diff_cav4cY_mean vs run
χ² / ndf 54.22 / 43
p0 1.123 ± 3.062
pull
Entries 44
Mean 145.3
Std Dev 124.7

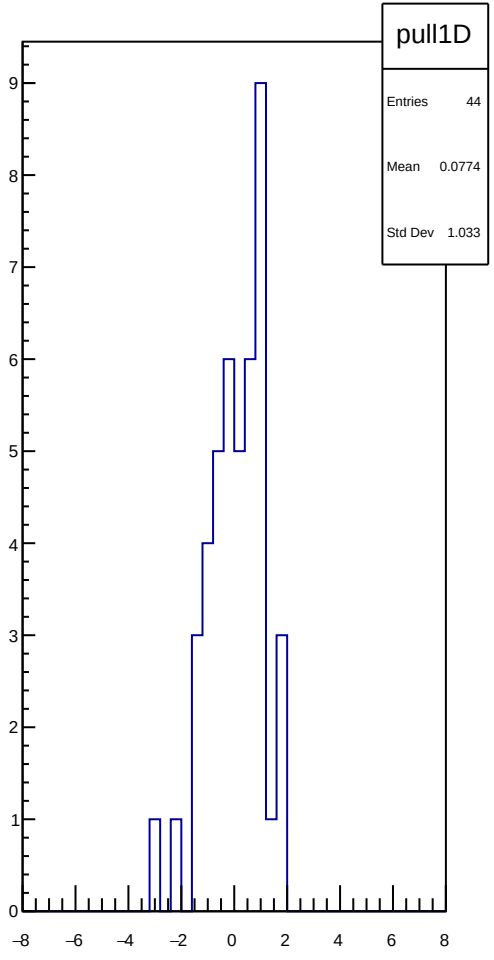

pull1D
Entries 44
Mean −0.02352
Std Dev 1.11

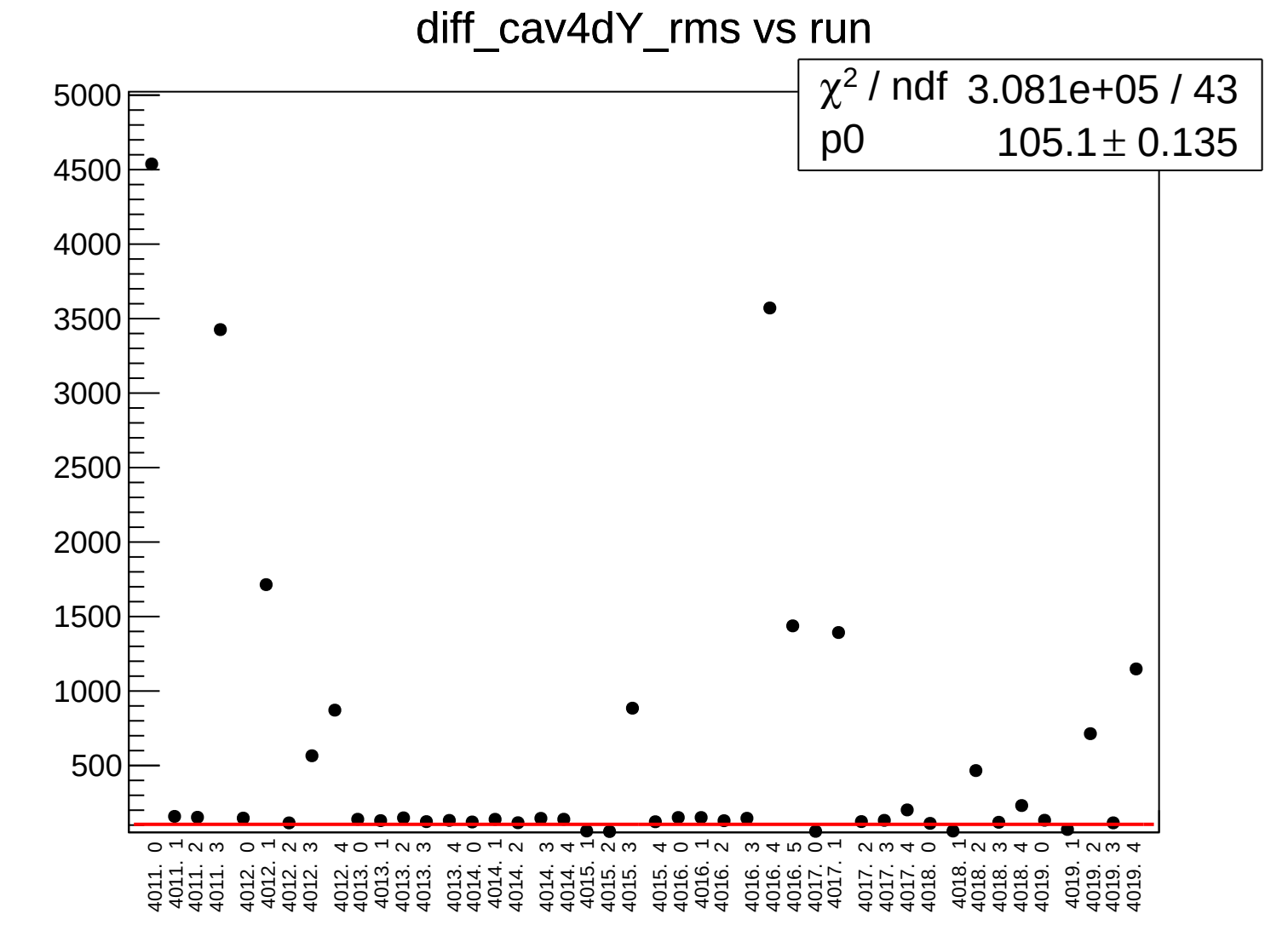

diff_cav4cY_rms vs run
χ² / ndf 1.537e+04 / 43
p0 2052 ± 2.165
3200
3000
2800
2600
2400
2200
2000
1800
1600
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

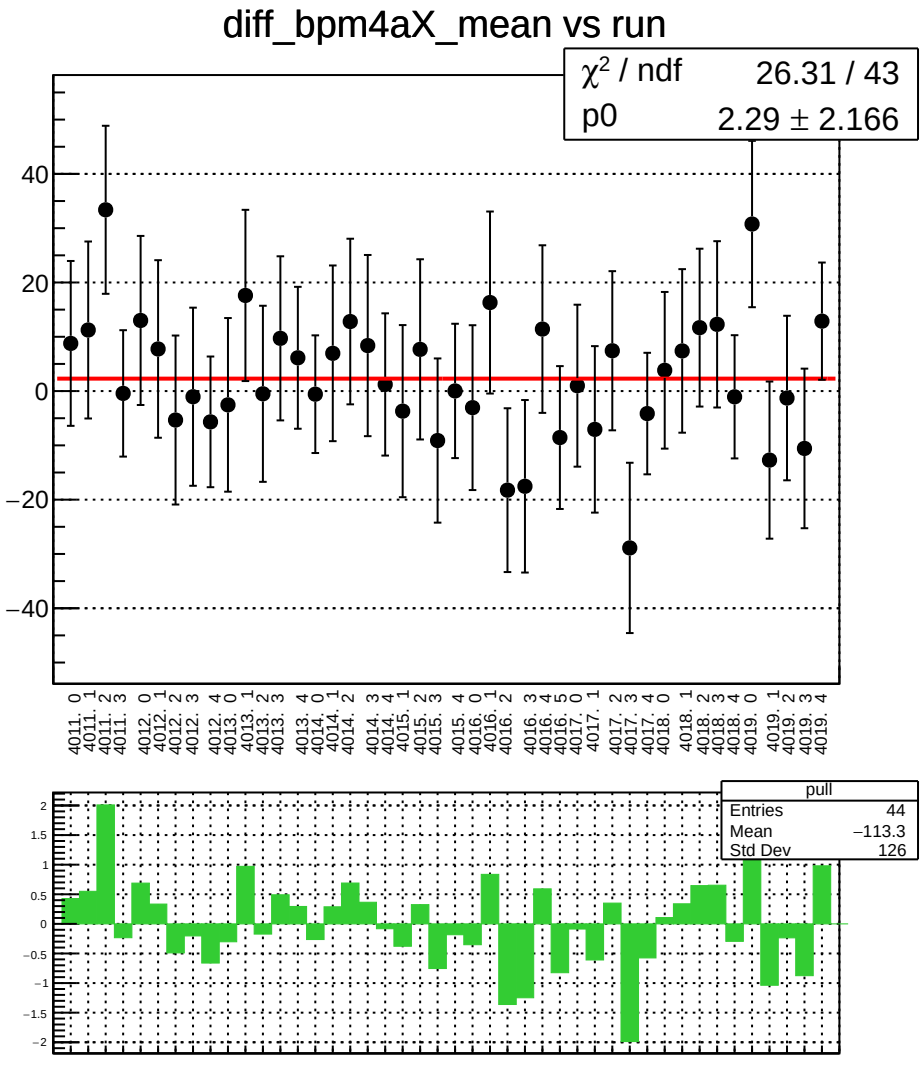

diff_cav4dX_mean vs run
χ² / ndf 44.54 / 43
p0 −0.005684 ± 0.01265
pull
Entries 44
Mean −435.9
Std Dev 456.4
pull1D
Entries 44
Mean 0.007412
Std Dev 1.006

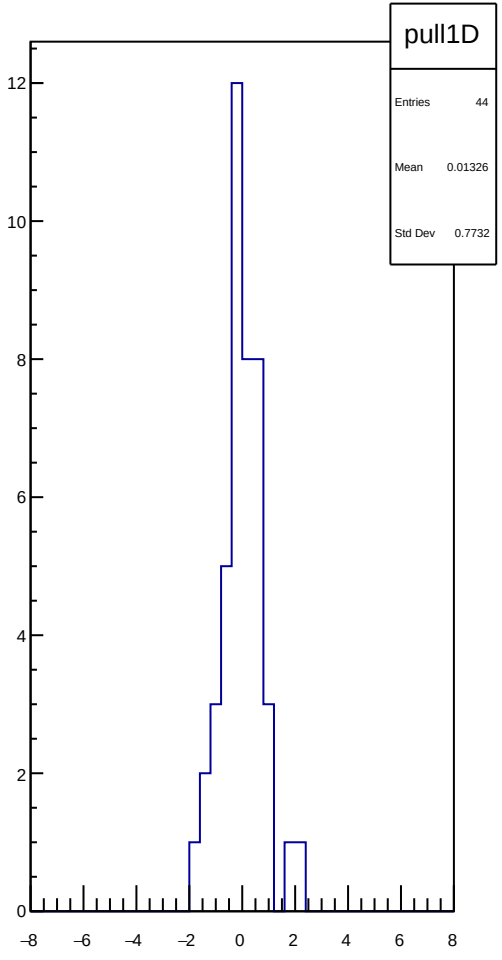

diff_cav4dX_rms vs run
χ² / ndf 117 / 43
p0 8.553 ± 0.008947
8.9
8.8
8.7
8.6
8.5
8.4
8.3
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

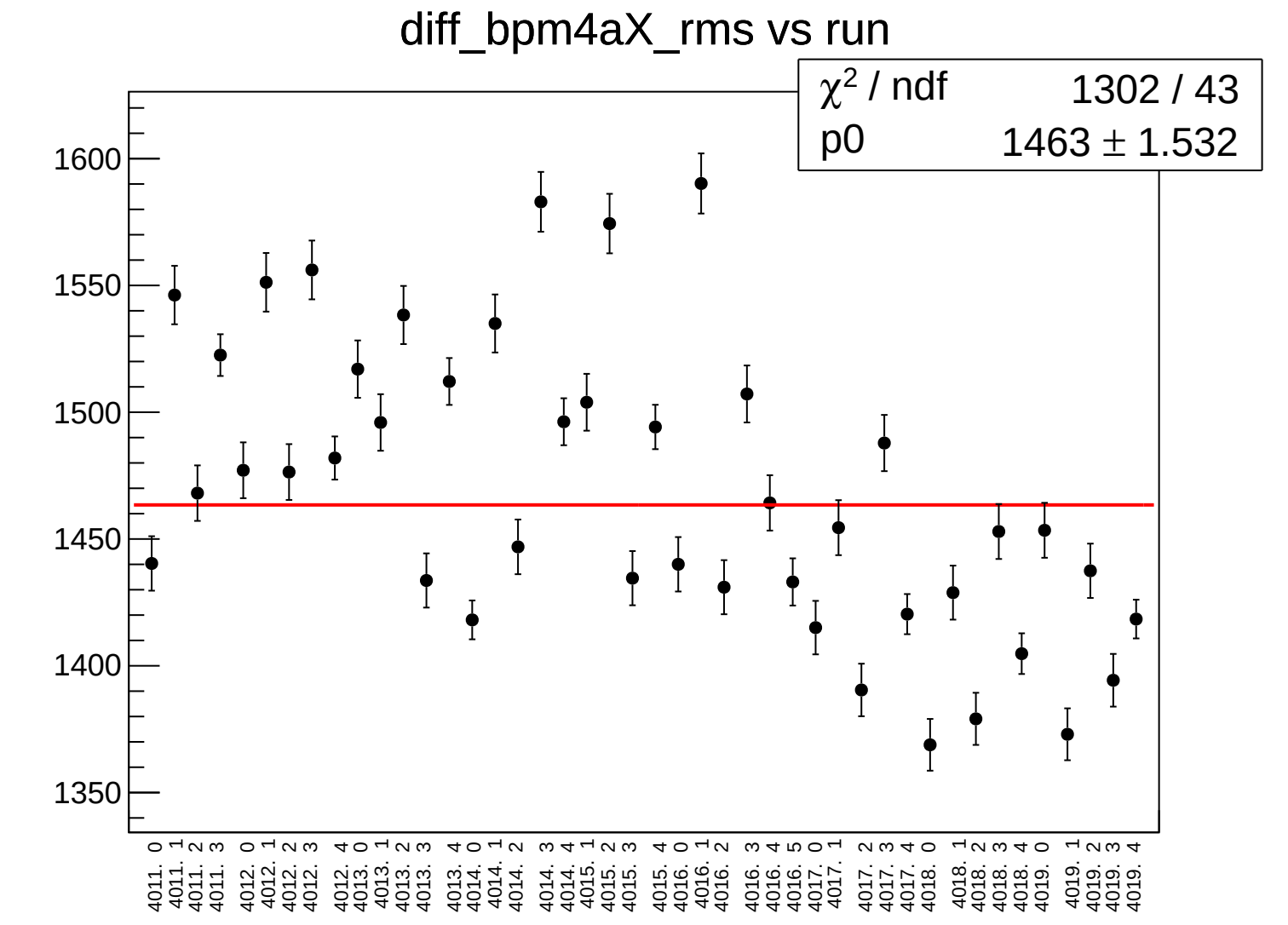

diff_cav4dY_mean vs run
χ² / ndf 47.23 / 43
p0 0.19 ± 0.191
pull
Entries 44
Mean 45.17
Std Dev 4.097

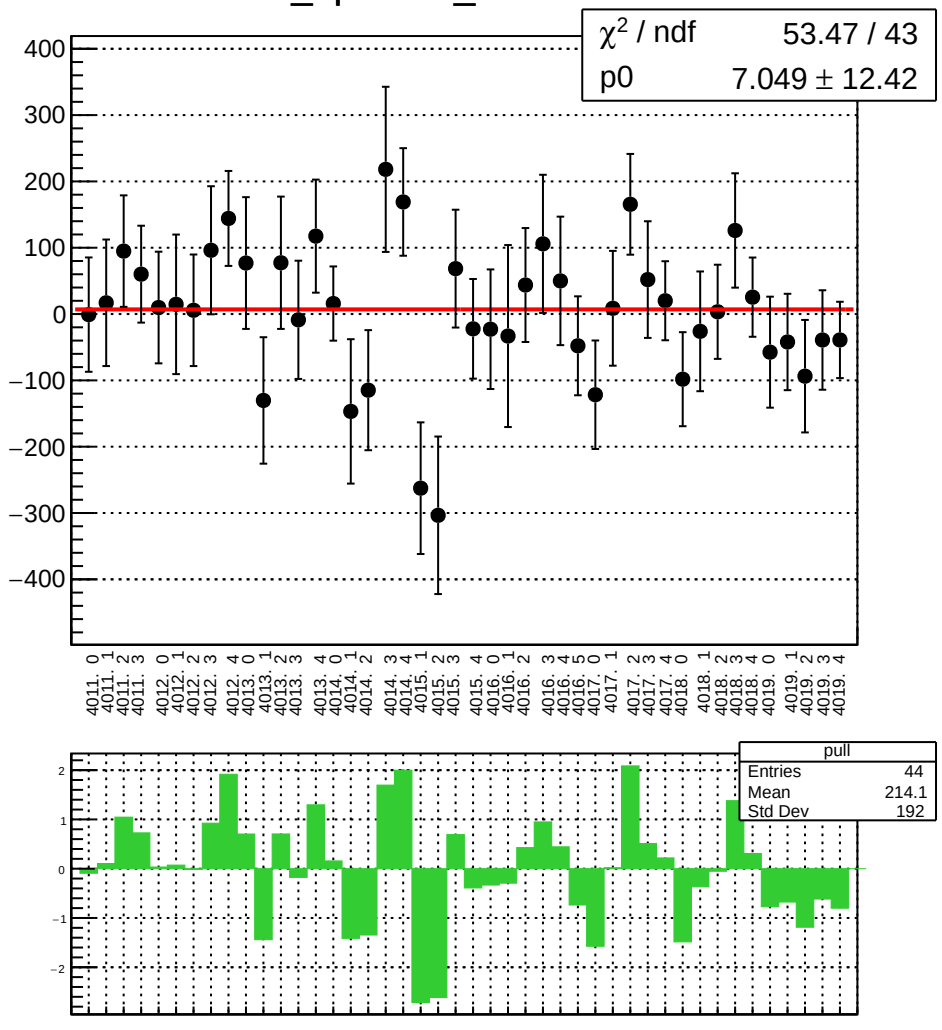

pull1D
Entries 44
Mean 0.0774
Std Dev 1.033

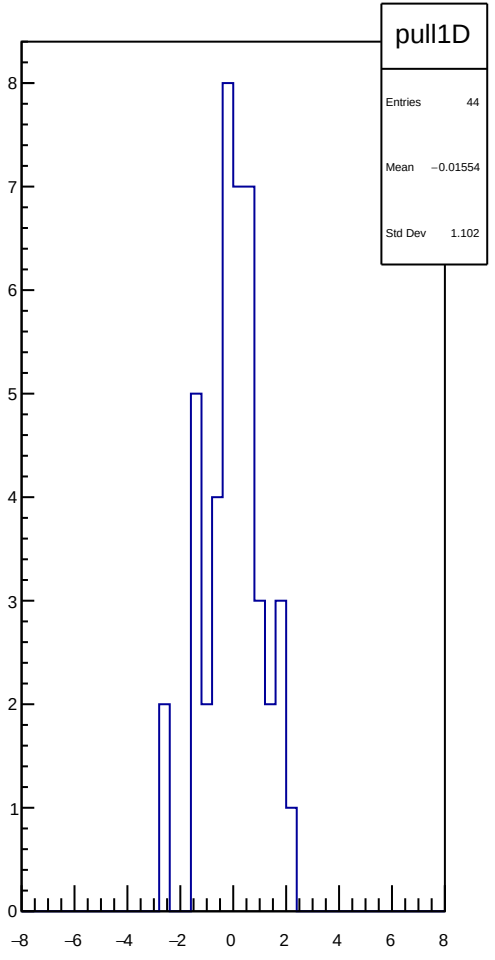

diff_cav4dY_rms vs run
χ^2 / ndf 3.081e+05 / 43
p0 105.1 ± 0.135
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

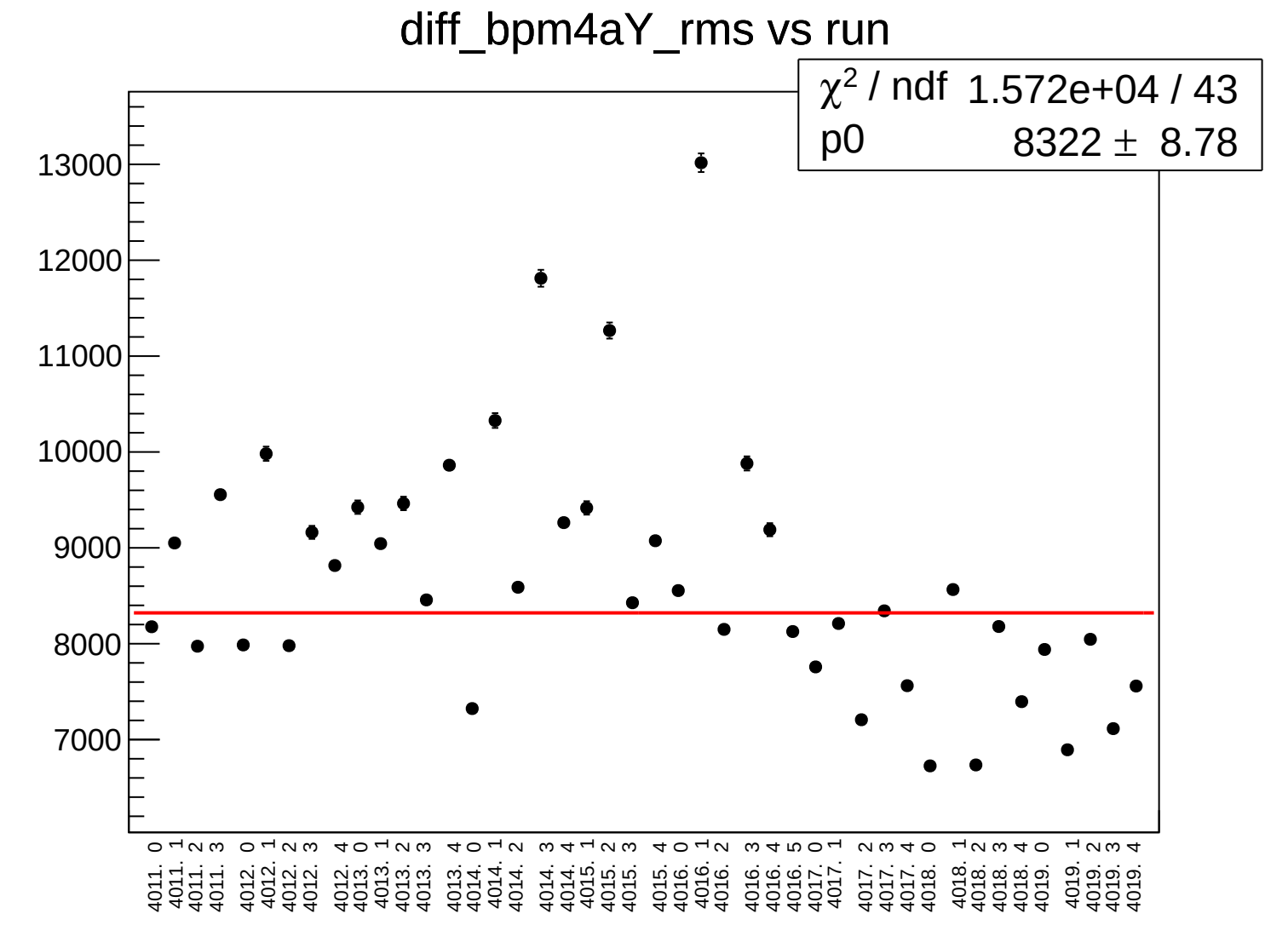

diff_bpm4aX_mean vs run
χ² / ndf 26.31 / 43
p0 2.29 ± 2.166
40
20
0
−20
−40
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −113.3
Std Dev 126
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

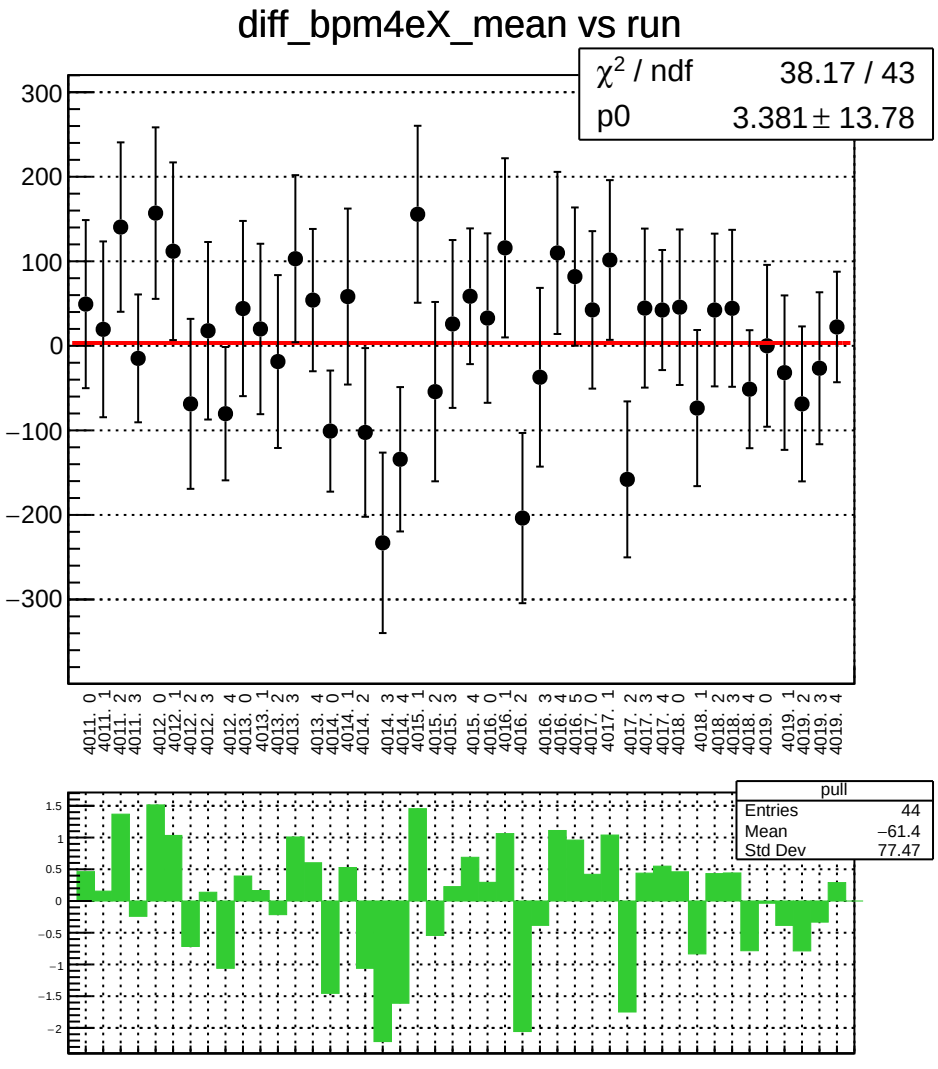

pull1D
Entries 44
Mean 0.01326
Std Dev 0.7732
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

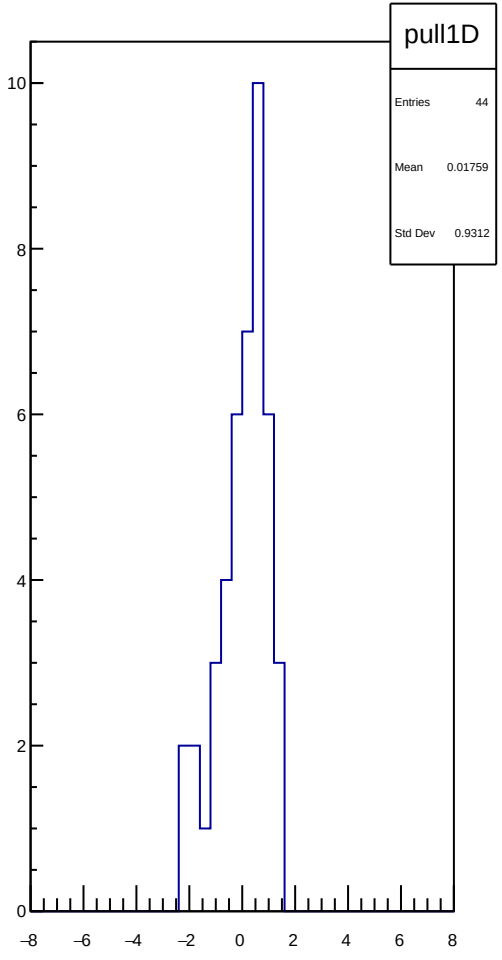

diff_bpm4aX_rms vs run
χ² / ndf 1302 / 43
p0 1463 ± 1.532
1600
1550
1500
1450
1400
1350
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

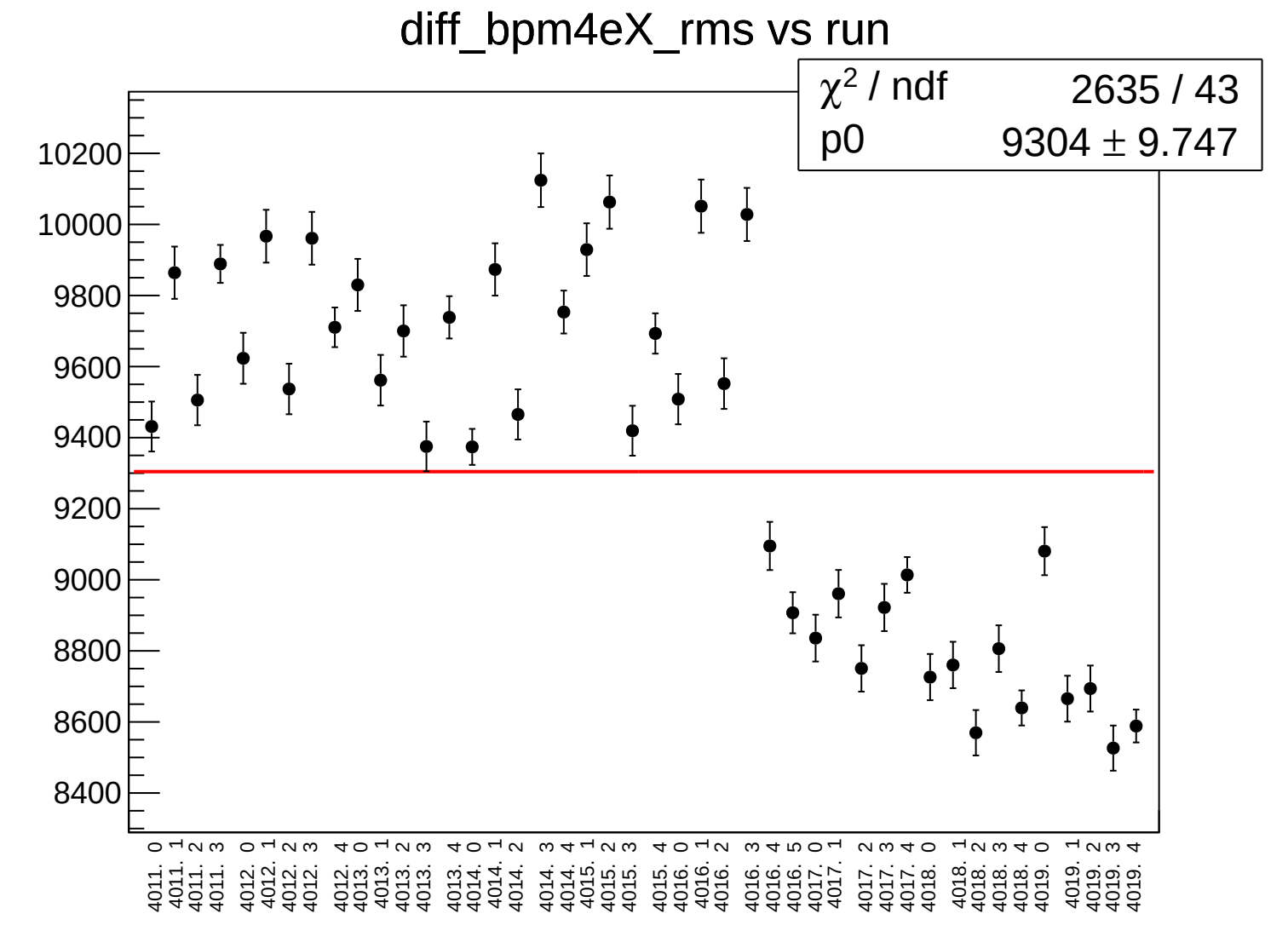

diff_bpm4aY_mean vs run
χ² / ndf 53.47 / 43
p0 7.049 ± 12.42
pull
Entries 44
Mean 214.1
Std Dev 192

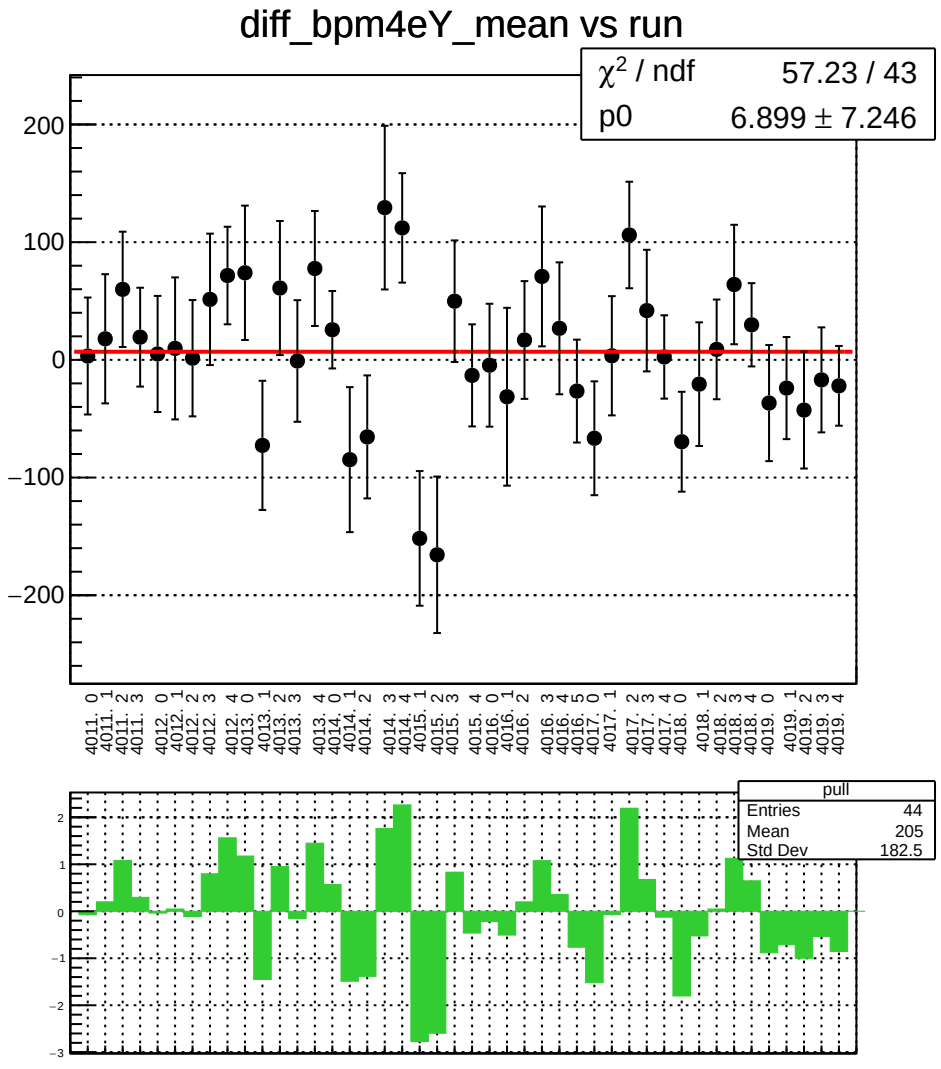

pull1D
Entries 44
Mean −0.01554
Std Dev 1.102

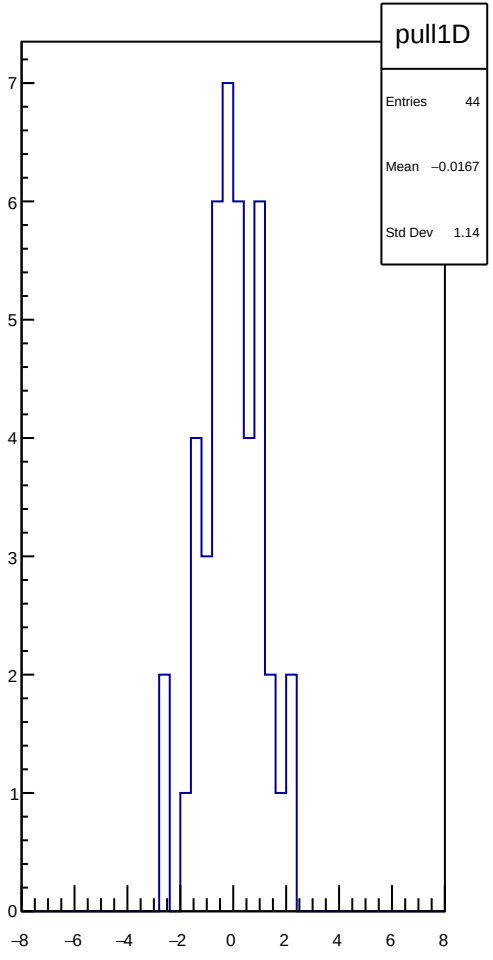

diff_bpm4aY_rms vs run
χ² / ndf 1.572e+04 / 43
p0 8322 ± 8.78
13000
12000
11000
10000
9000
8000
7000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

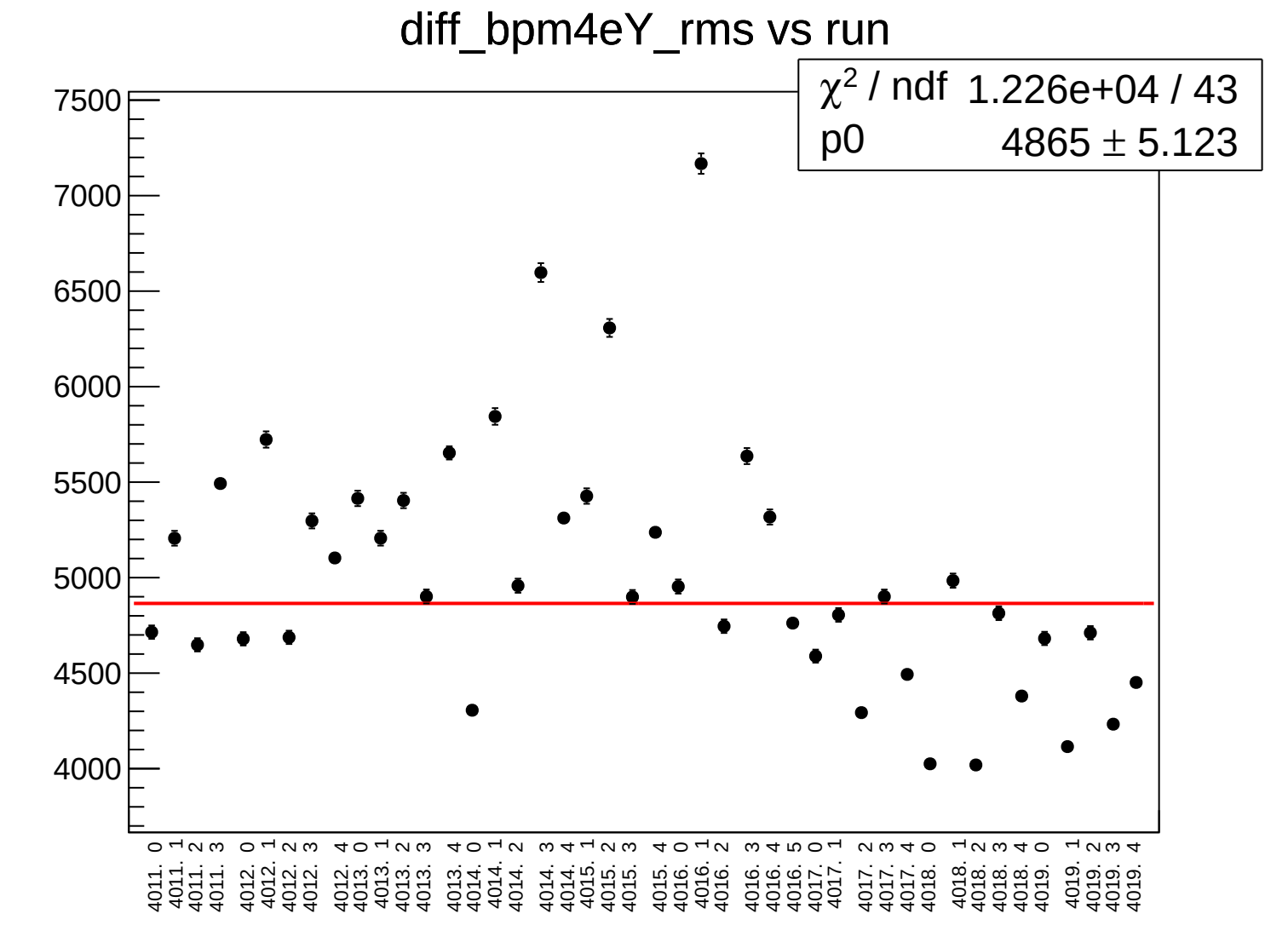

diff_bpm4eX_mean vs run
χ² / ndf 38.17 / 43
p0 3.381 ± 13.78
300
200
100
0
−100
−200
−300
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −61.4
Std Dev 77.47
1.5
1
0.5
0
−0.5
−1
−1.5
−2

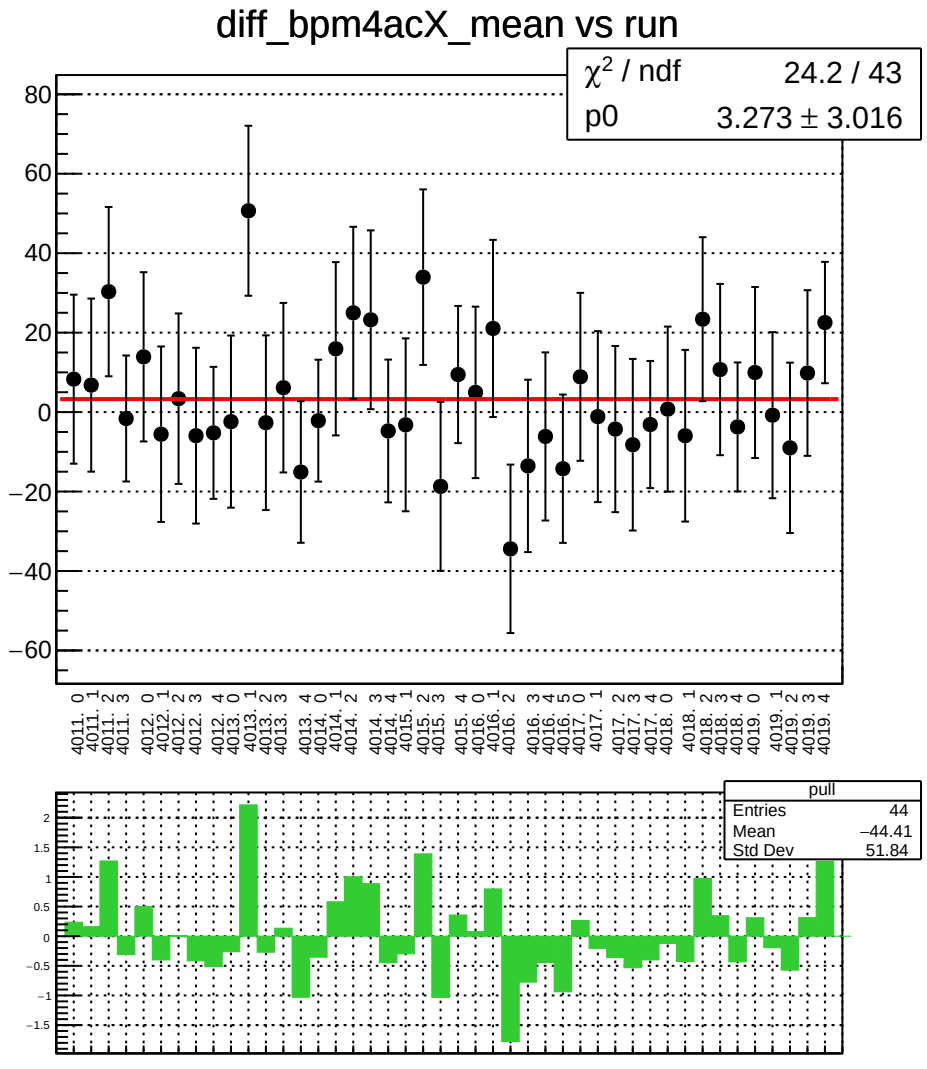

pull1D
Entries 44
Mean 0.01759
Std Dev 0.9312
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

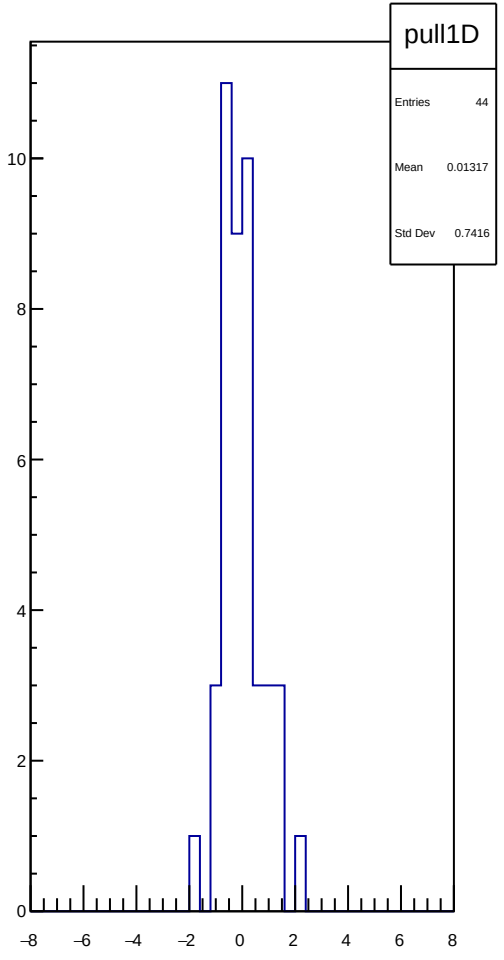

diff_bpm4eX_rms vs run
χ² / ndf 2635 / 43
p0 9304 ± 9.747
10200
10000
9800
9600
9400
9200
9000
8800
8600
8400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

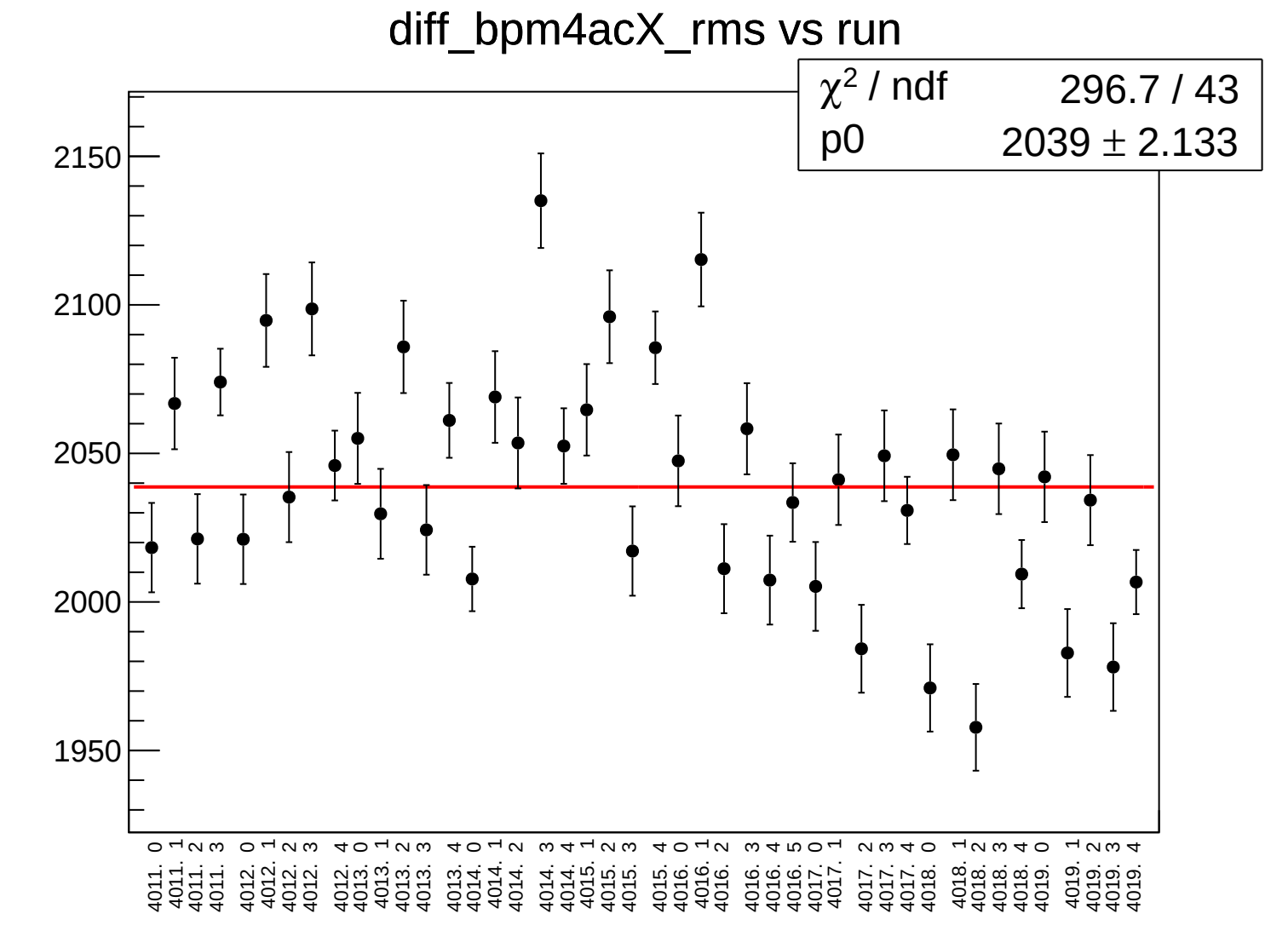

diff_bpm4eY_mean vs run
χ² / ndf 57.23 / 43
p0 6.899 ± 7.246
200
100
0
−100
−200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 205
Std Dev 182.5
2
1
0
−1
−2
−3

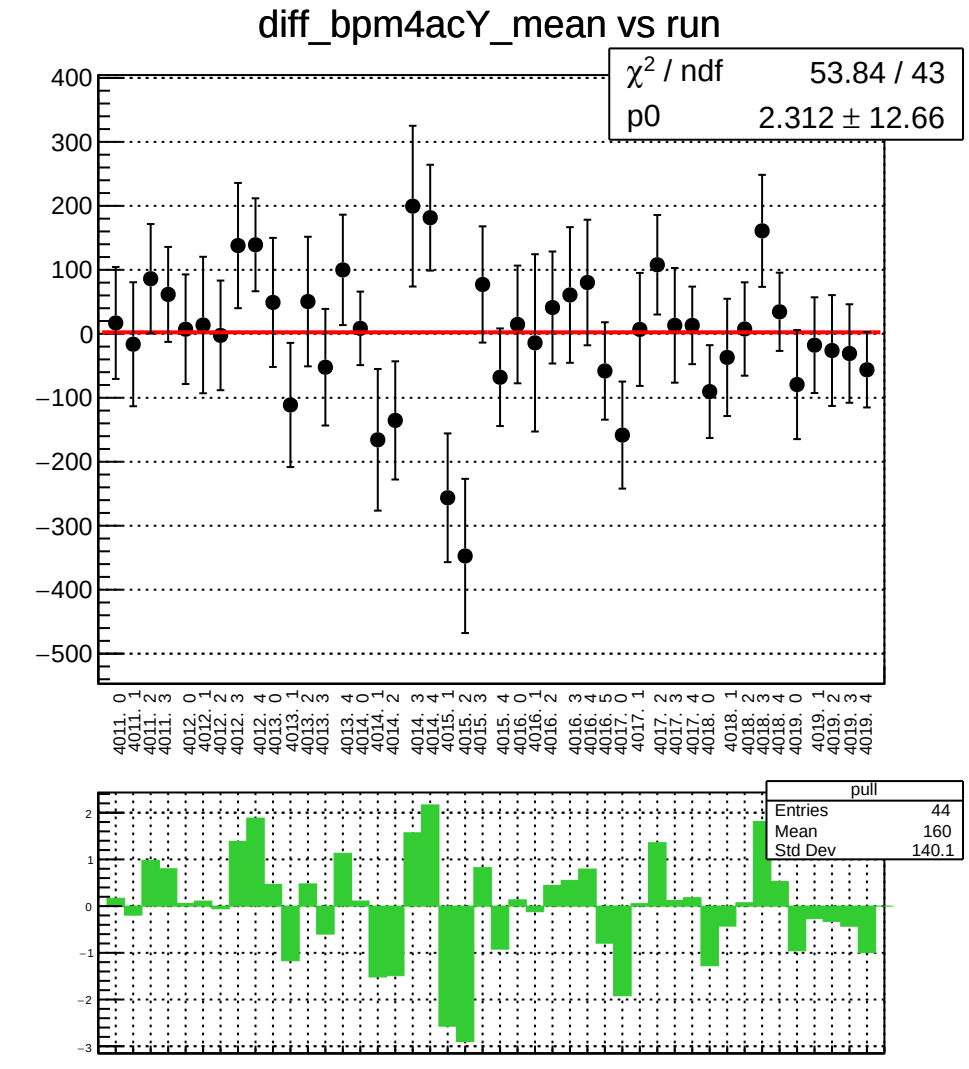

pull1D
Entries 44
Mean −0.0167
Std Dev 1.14
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

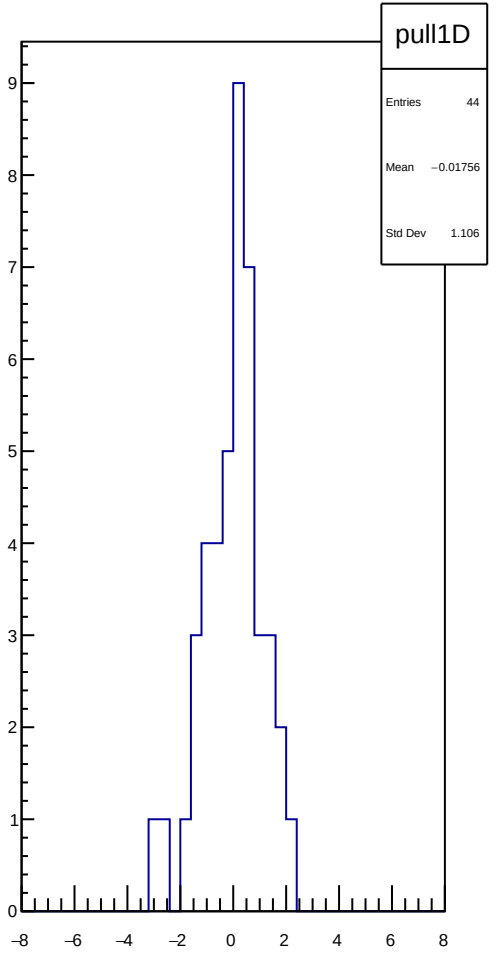

diff_bpm4eY_rms vs run
χ² / ndf 1.226e+04 / 43
p0 4865 ± 5.123
7500
7000
6500
6000
5500
5000
4500
4000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

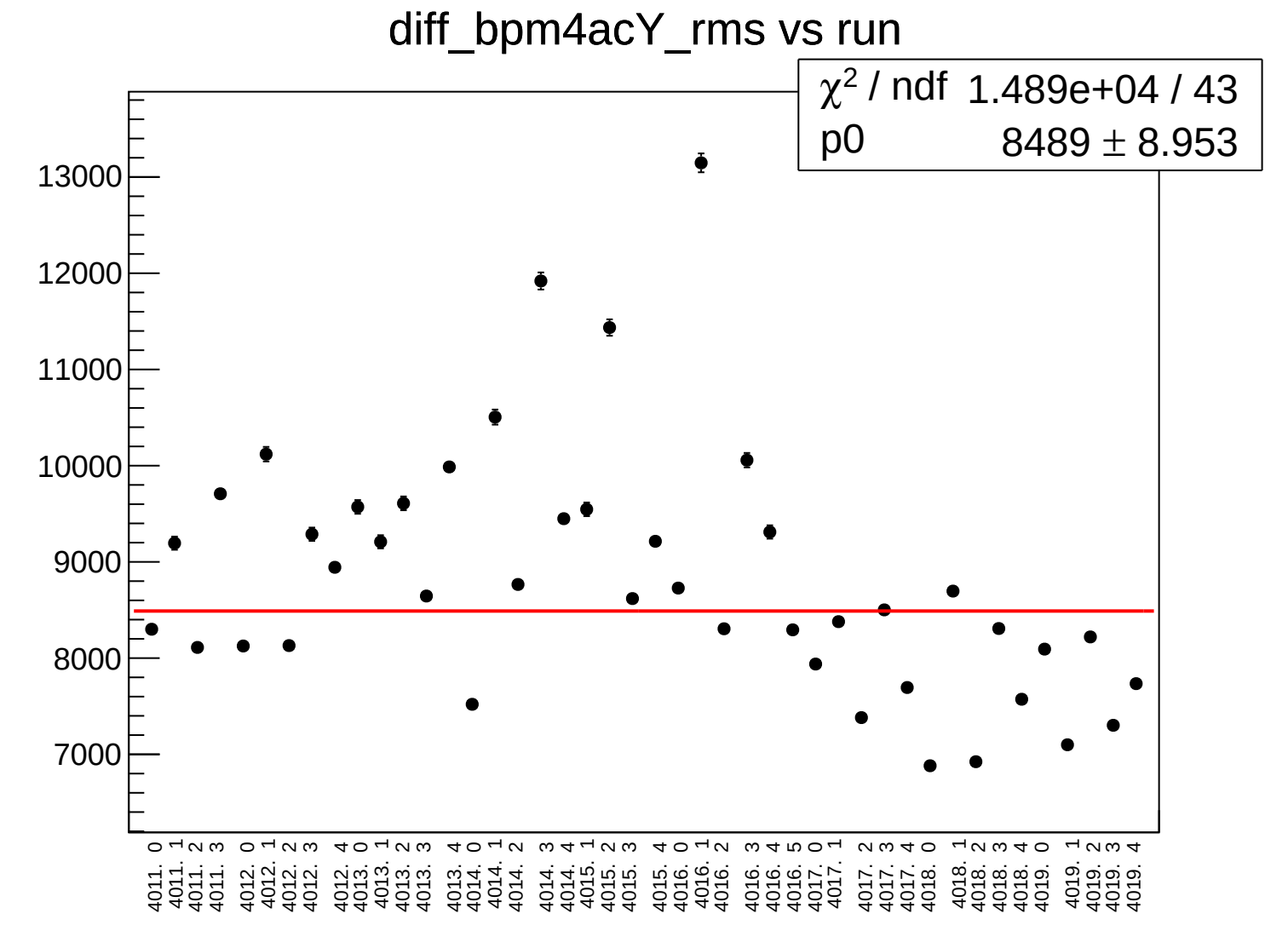

diff_bpm4acX_mean vs run
χ² / ndf 24.2 / 43
p0 3.273 ± 3.016
pull
Entries 44
Mean −44.41
Std Dev 51.84

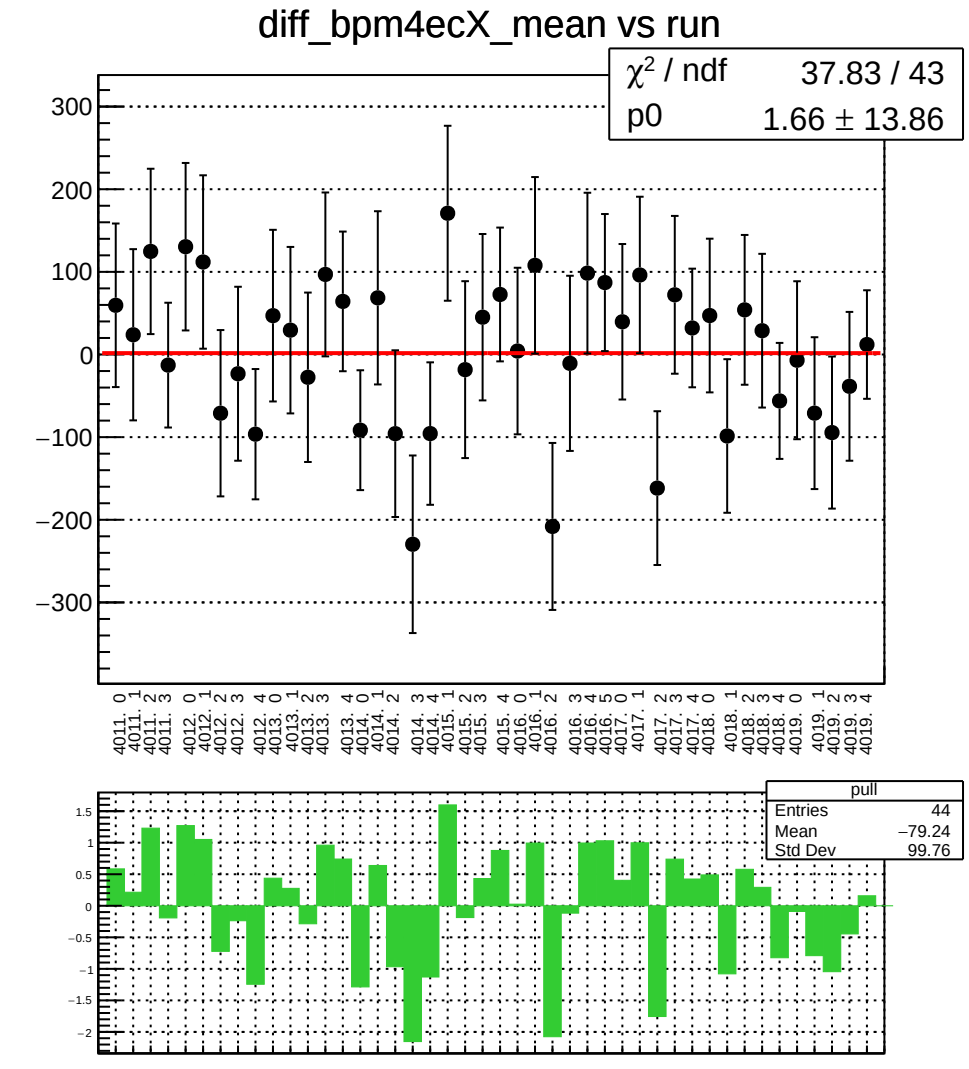

pull1D
Entries 44
Mean 0.01317
Std Dev 0.7416

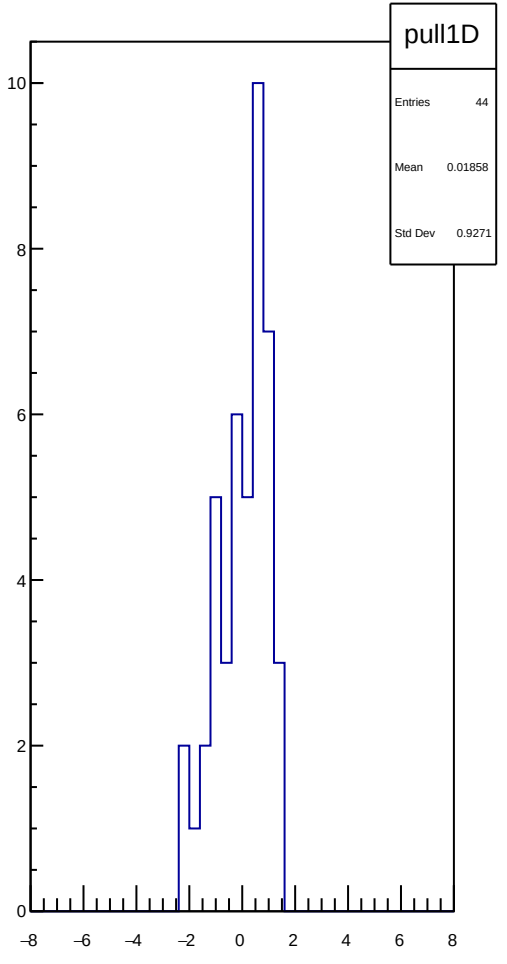

diff_bpm4acX_rms vs run
χ² / ndf 296.7 / 43
p0 2039 ± 2.133
2150
2100
2050
2000
1950
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

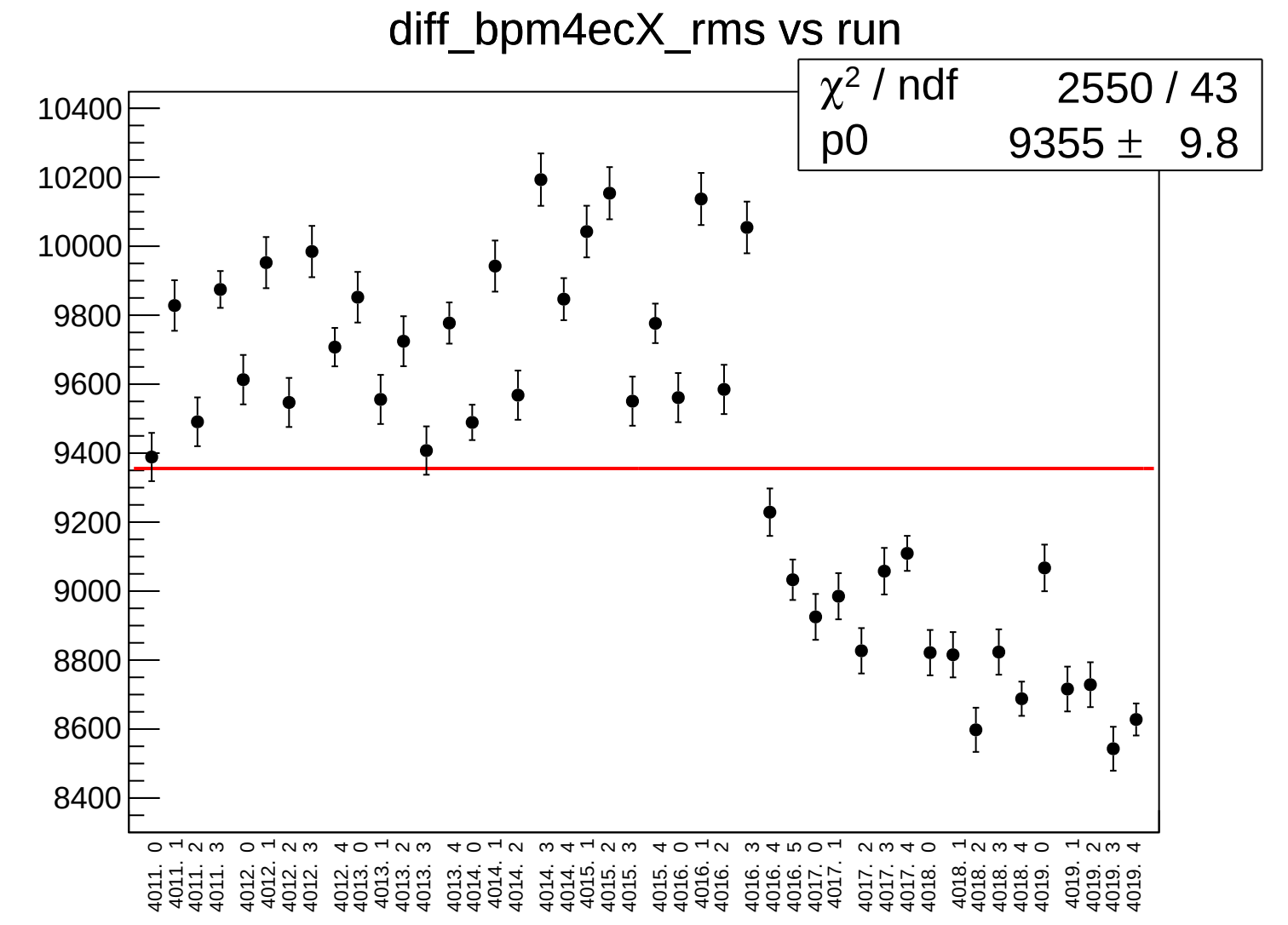

diff_bpm4acY_mean vs run
χ² / ndf 53.84 / 43
p0 2.312 ± 12.66
pull
Entries 44
Mean 160
Std Dev 140.1

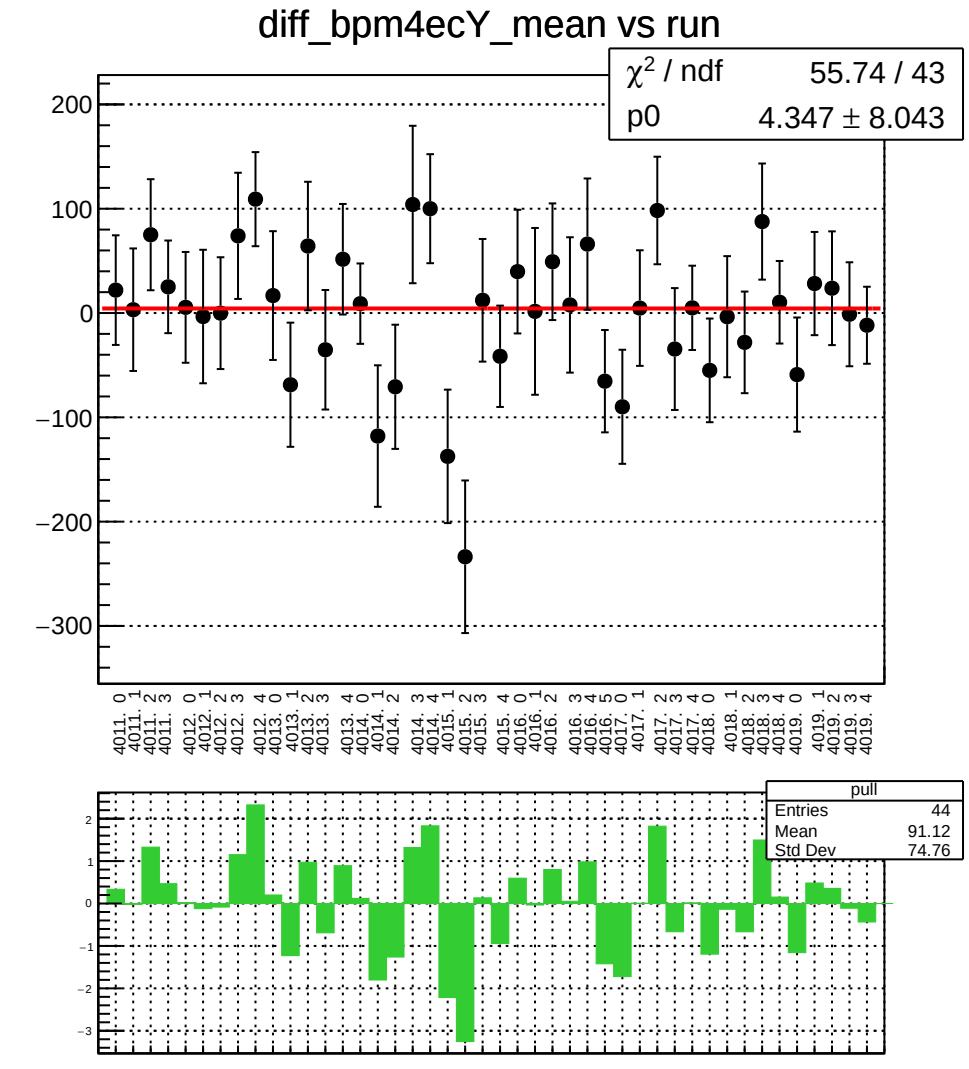

pull1D
Entries 44
Mean −0.01756
Std Dev 1.106

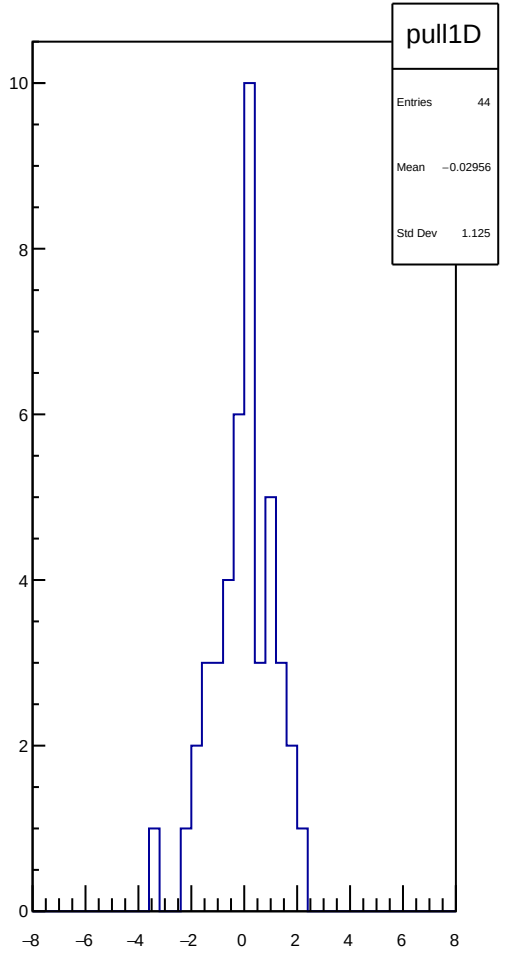

diff_bpm4acY_rms vs run
χ² / ndf 1.489e+04 / 43
p0 8489 ± 8.953
13000
12000
11000
10000
9000
8000
7000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

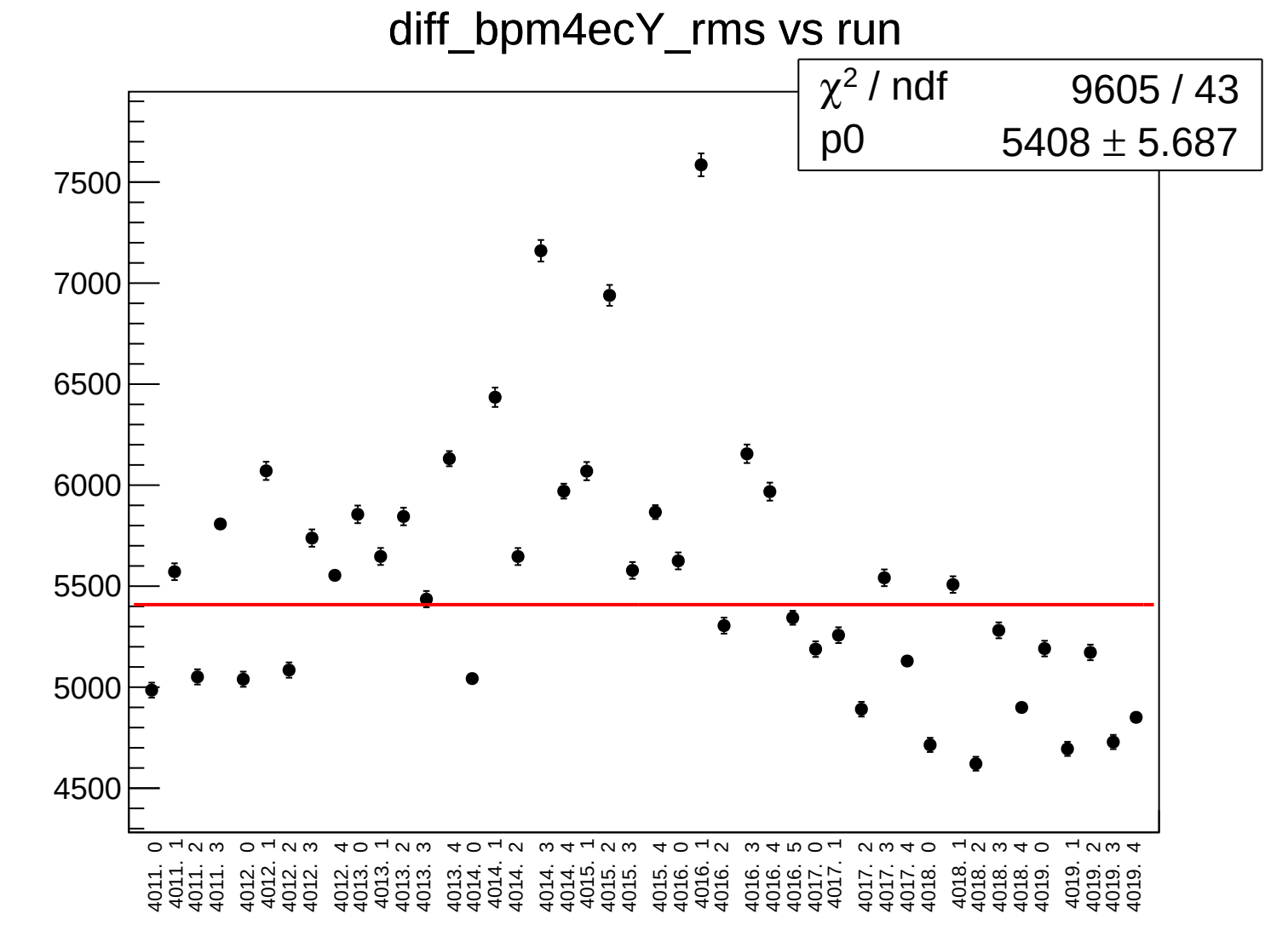

diff_bpm4ecX_mean vs run
χ² / ndf 37.83 / 43
p0 1.66 ± 13.86
300
200
100
0
−100
−200
−300
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −79.24
Std Dev 99.76
1.5
1
0.5
0
−0.5
−1
−1.5
−2

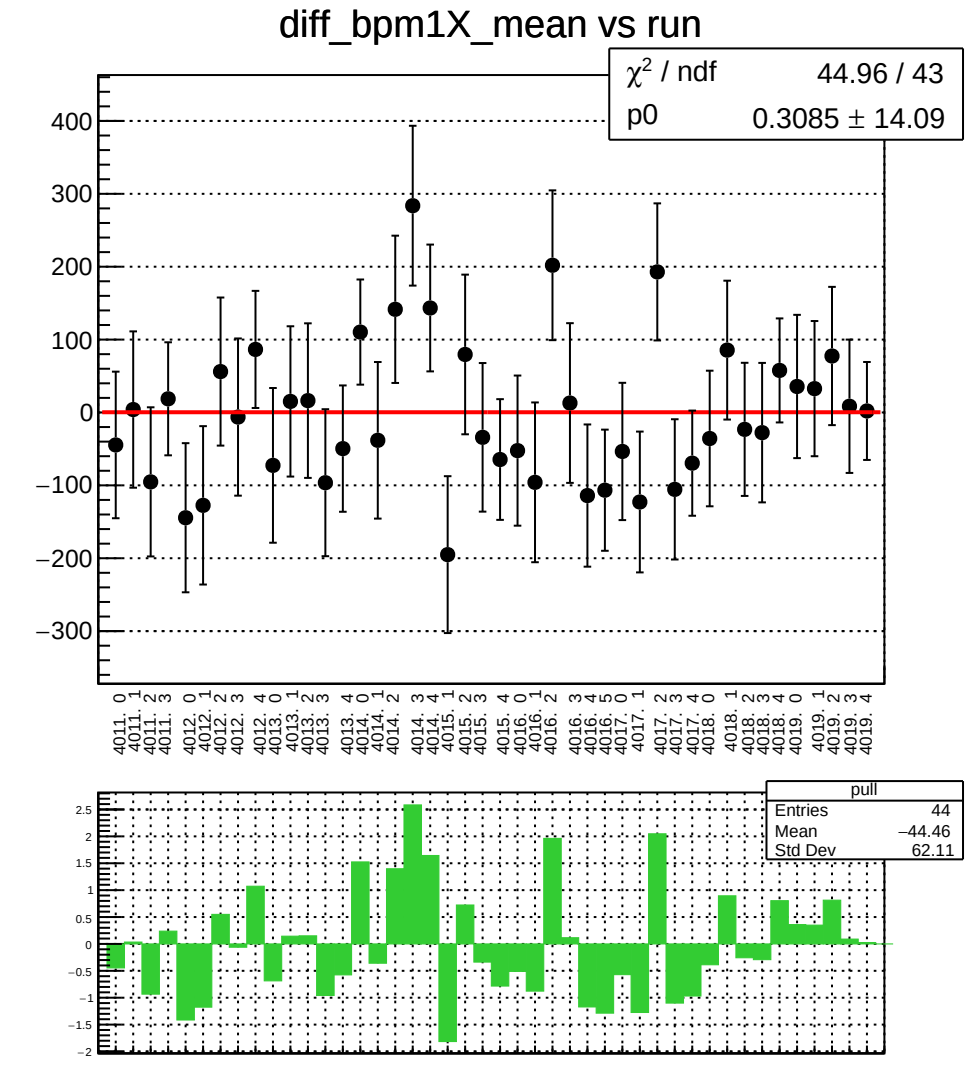

pull1D
Entries 44
Mean 0.01858
Std Dev 0.9271
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

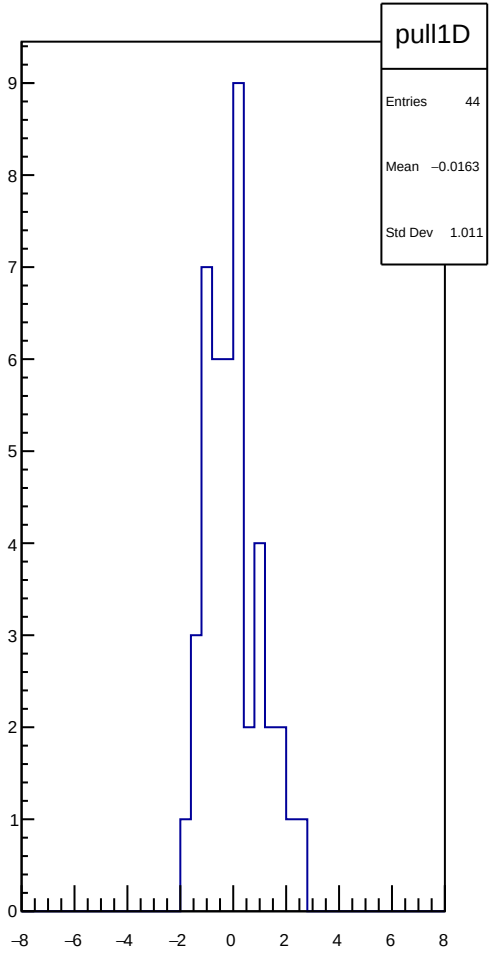

diff_bpm4ecX_rms vs run
χ² / ndf 2550 / 43
p0 9355 ± 9.8
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600
8400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

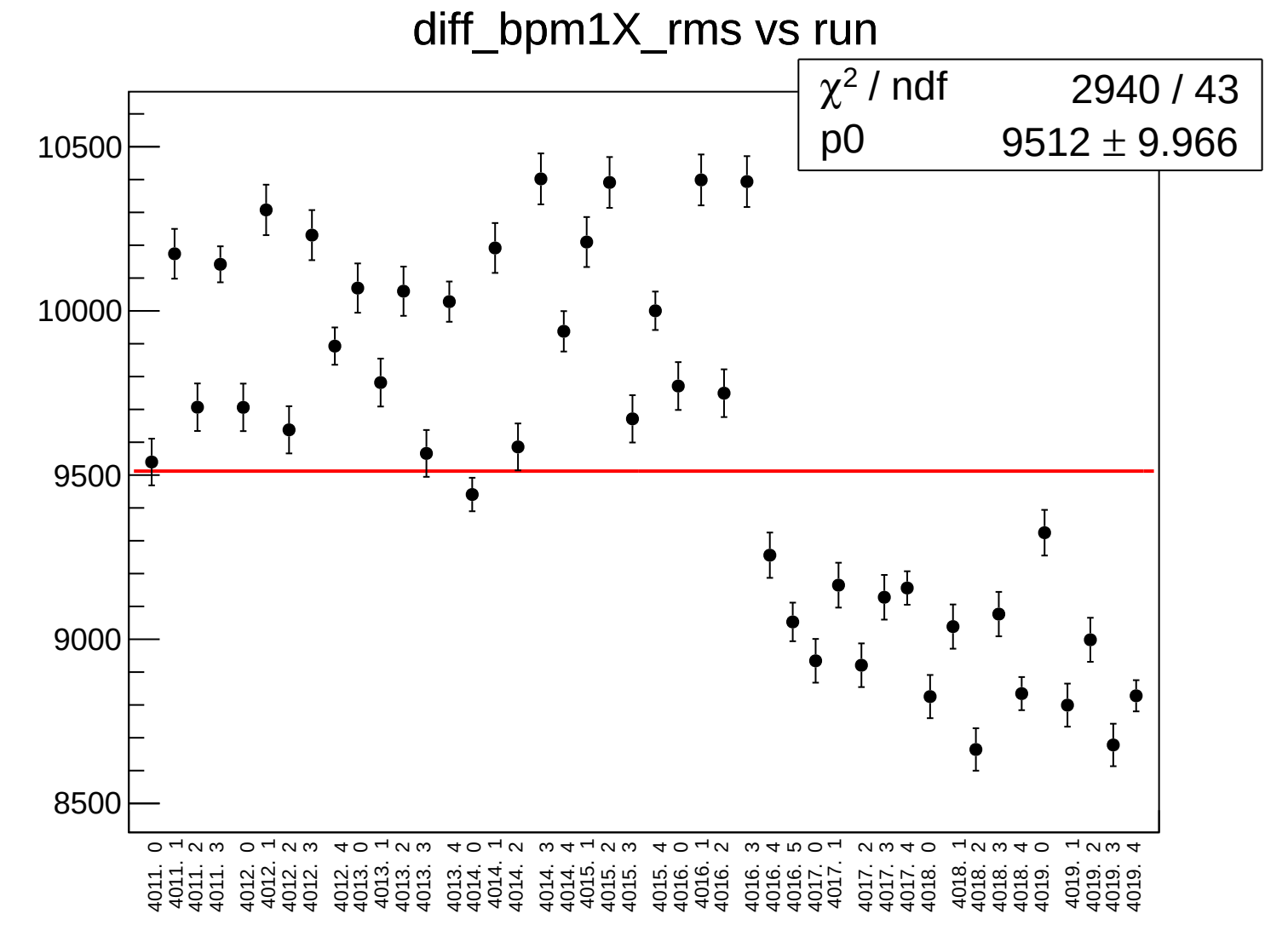

diff_bpm4ecY_mean vs run
χ² / ndf 55.74 / 43
p0 4.347 ± 8.043
200
100
0
−100
−200
−300
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 91.12
Std Dev 74.76
2
1
0
−1
−2
−3

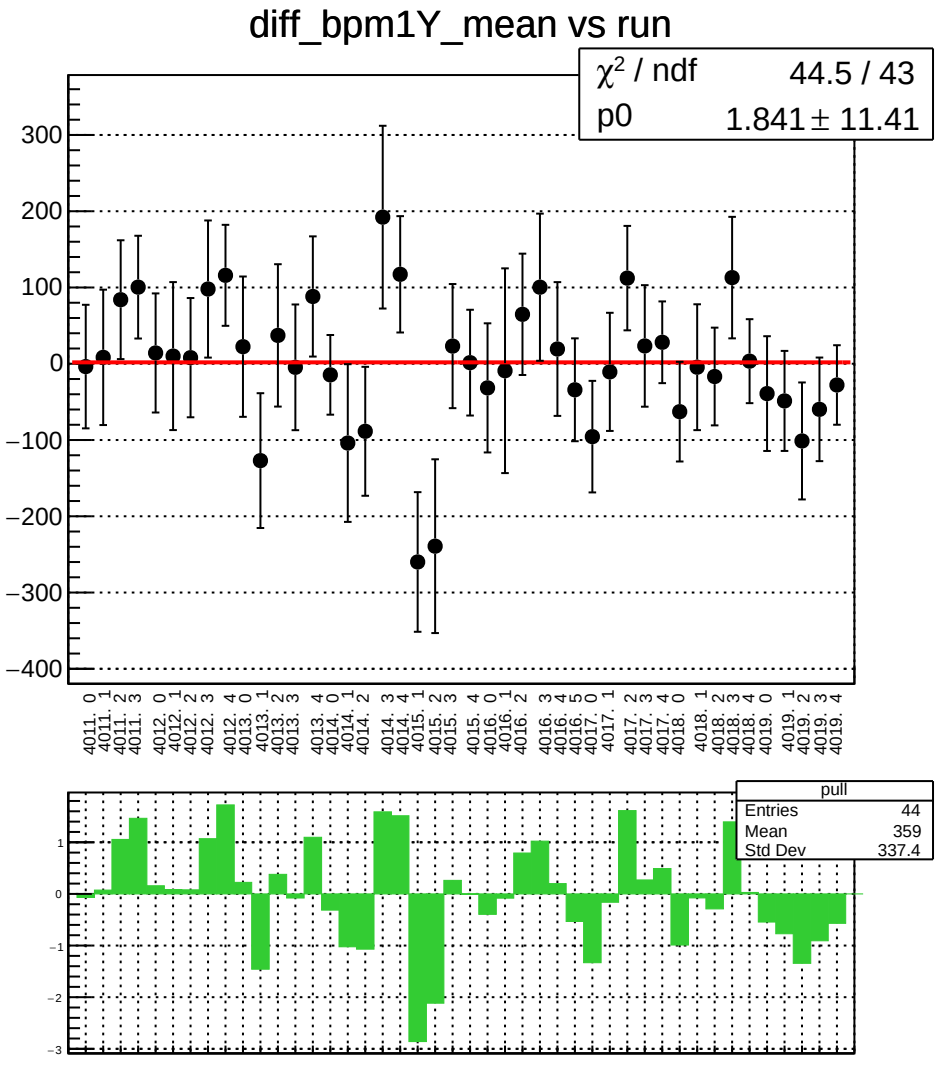

pull1D
Entries 44
Mean −0.02956
Std Dev 1.125
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

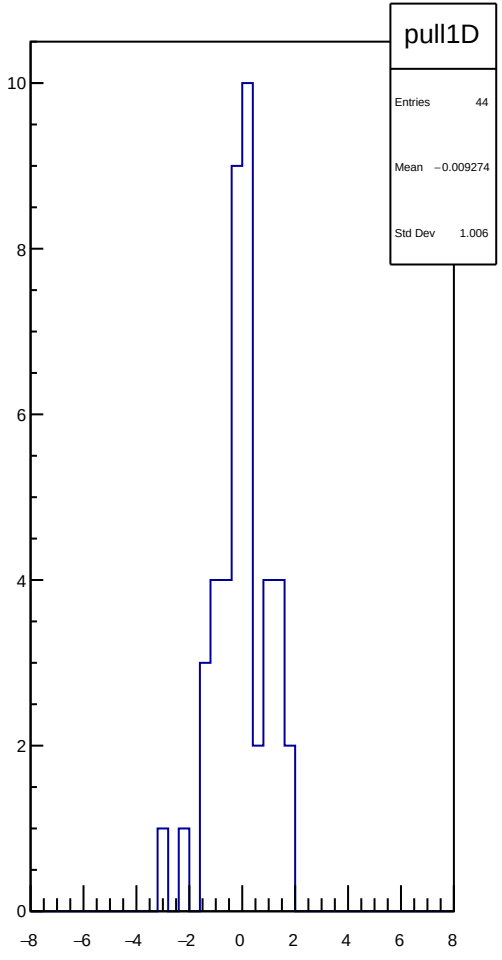

diff_bpm4ecY_rms vs run
χ² / ndf 9605 / 43
p0 5408 ± 5.687
7500
7000
6500
6000
5500
5000
4500
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

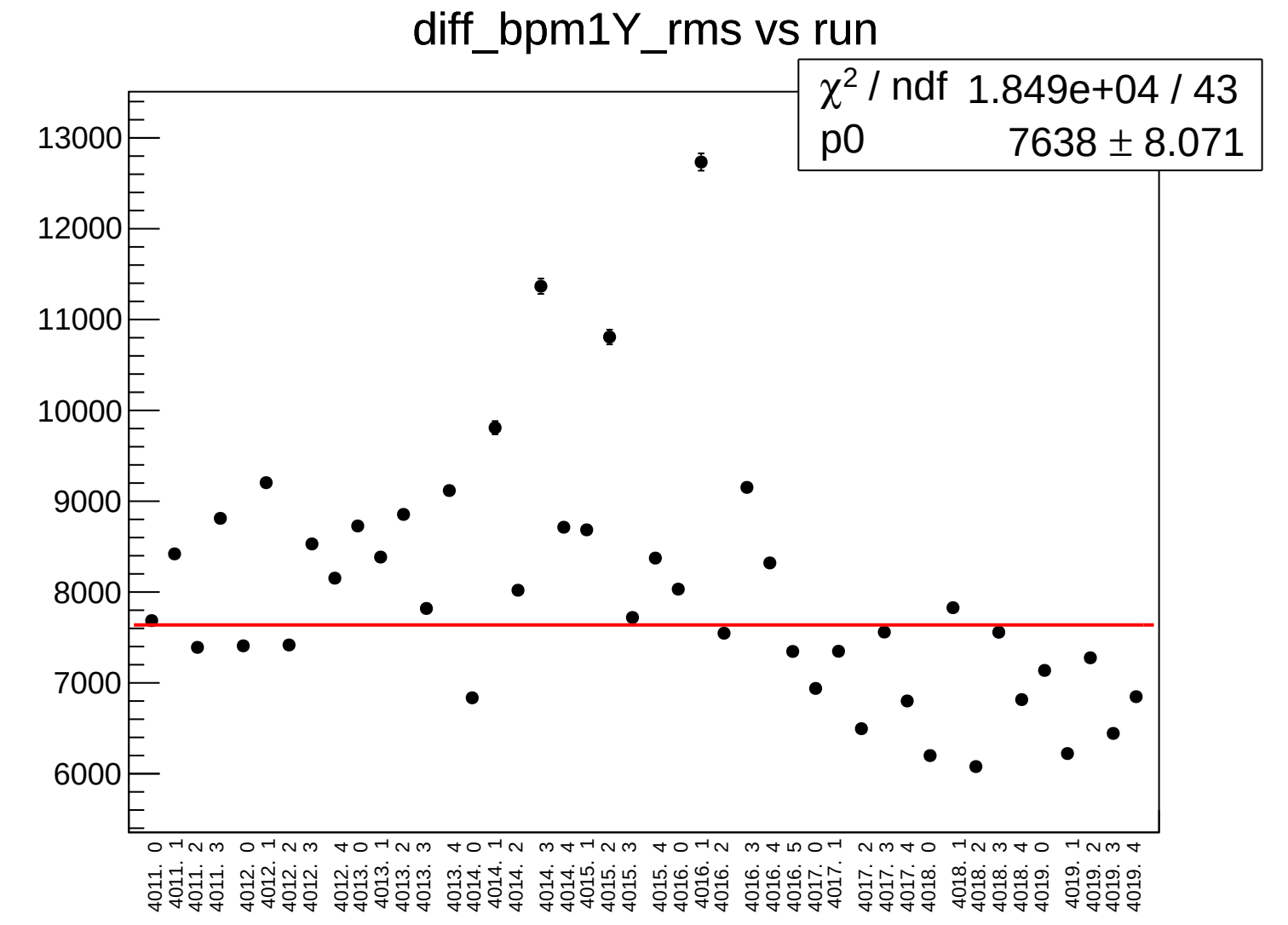

diff_bpm1X_mean vs run
χ^2 / ndf 44.96 / 43
p0 0.3085 ± 14.09
pull
Entries 44
Mean −44.46
Std Dev 62.11

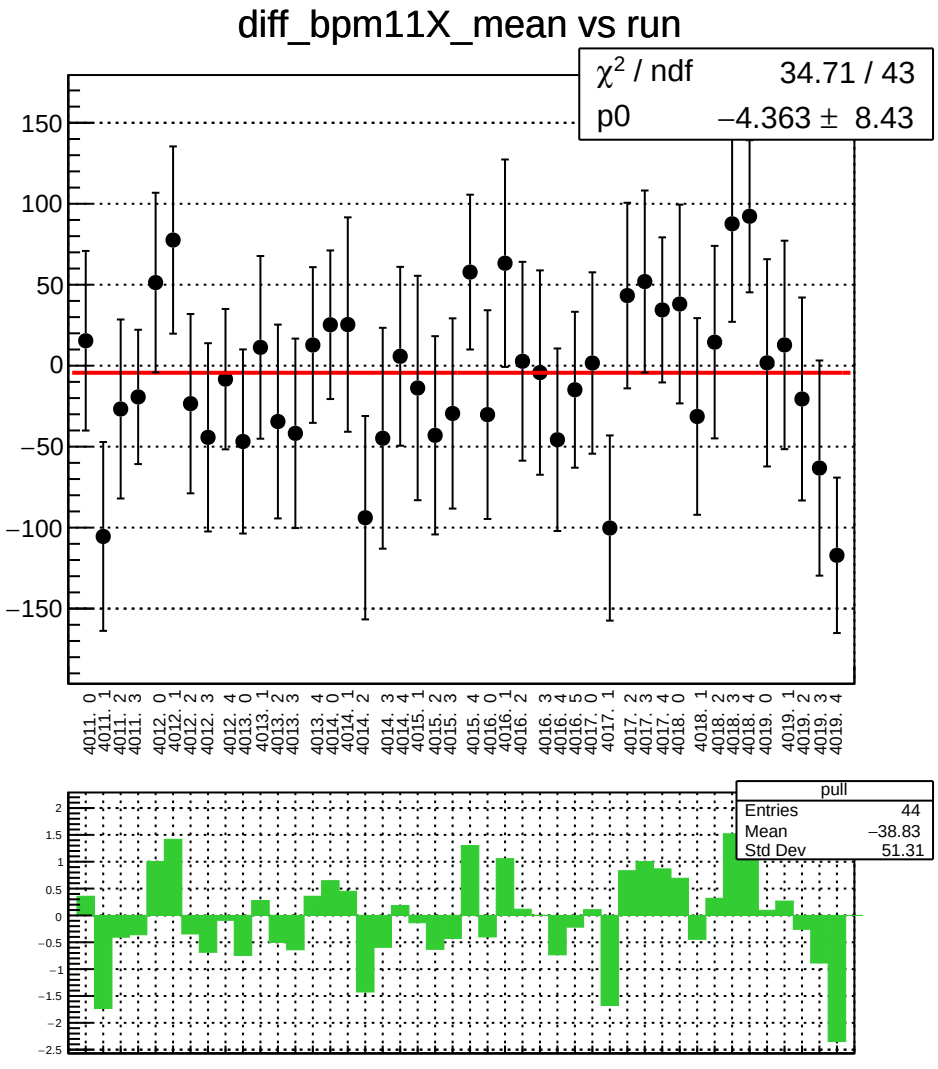

pull1D
Entries 44
Mean −0.0163
Std Dev 1.011

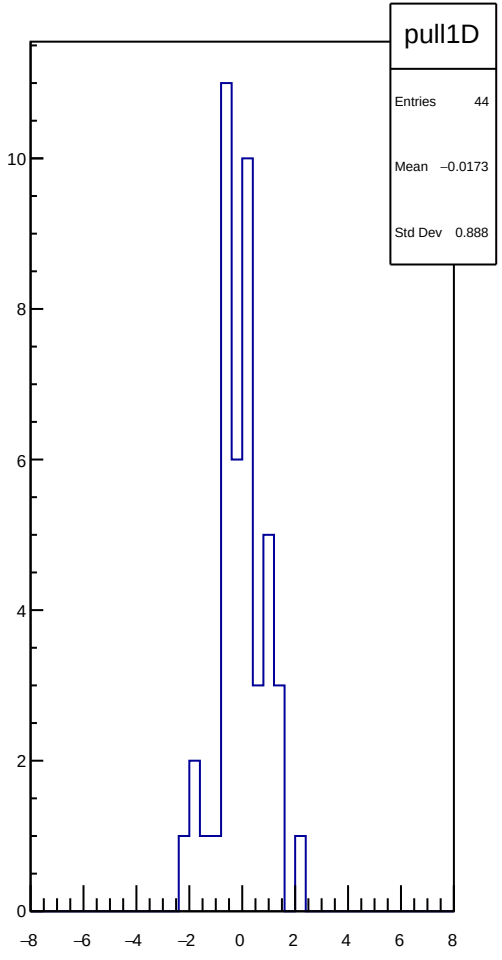

diff_bpm1X_rms vs run
χ² / ndf 2940 / 43
p0 9512 ± 9.966
10500
10000
9500
9000
8500
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

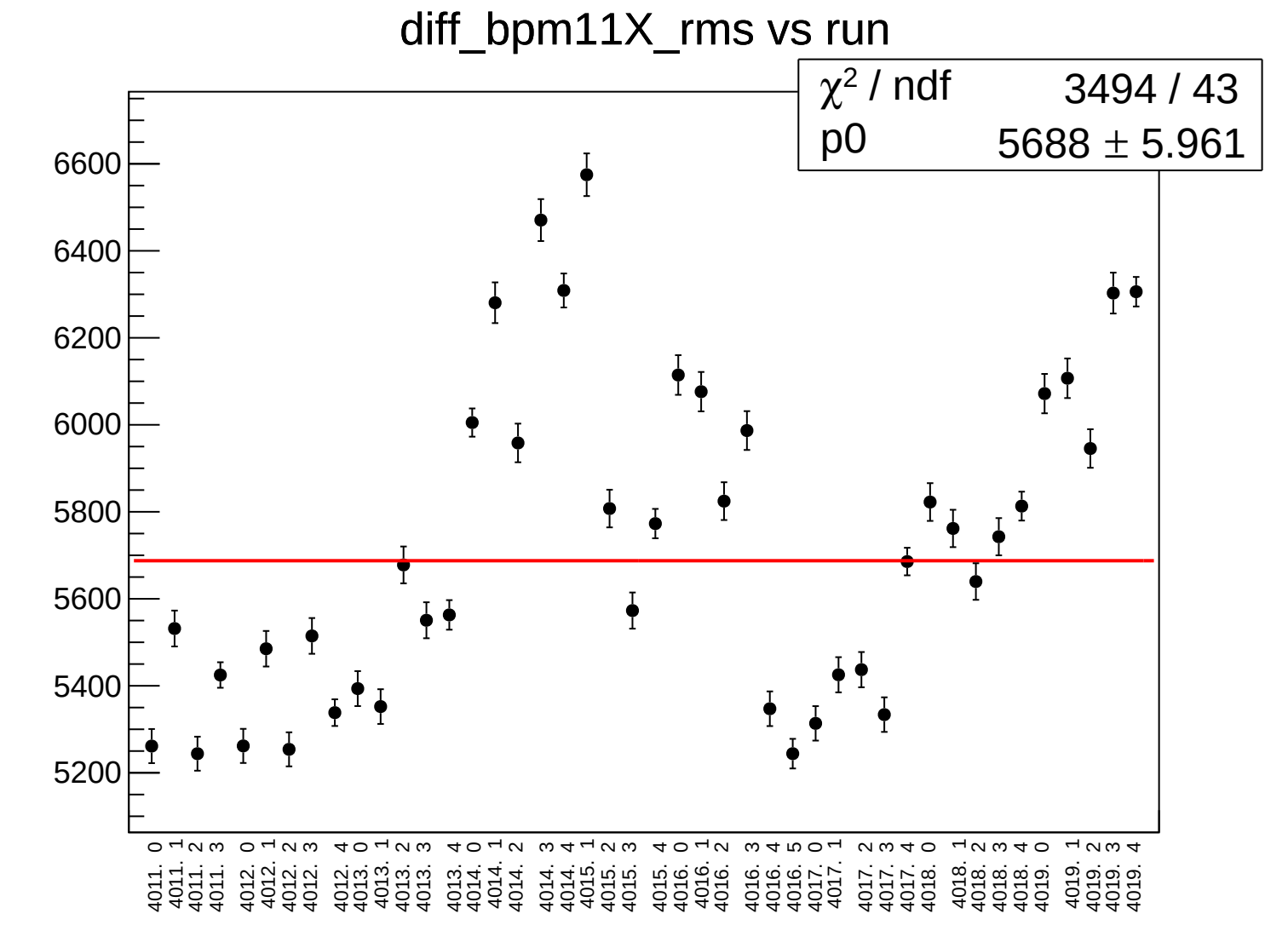

diff_bpm1Y_mean vs run
χ² / ndf 44.5 / 43
p0 1.841 ± 11.41
300
200
100
0
−100
−200
−300
−400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 359
Std Dev 337.4
1
0
−1
−2
−3

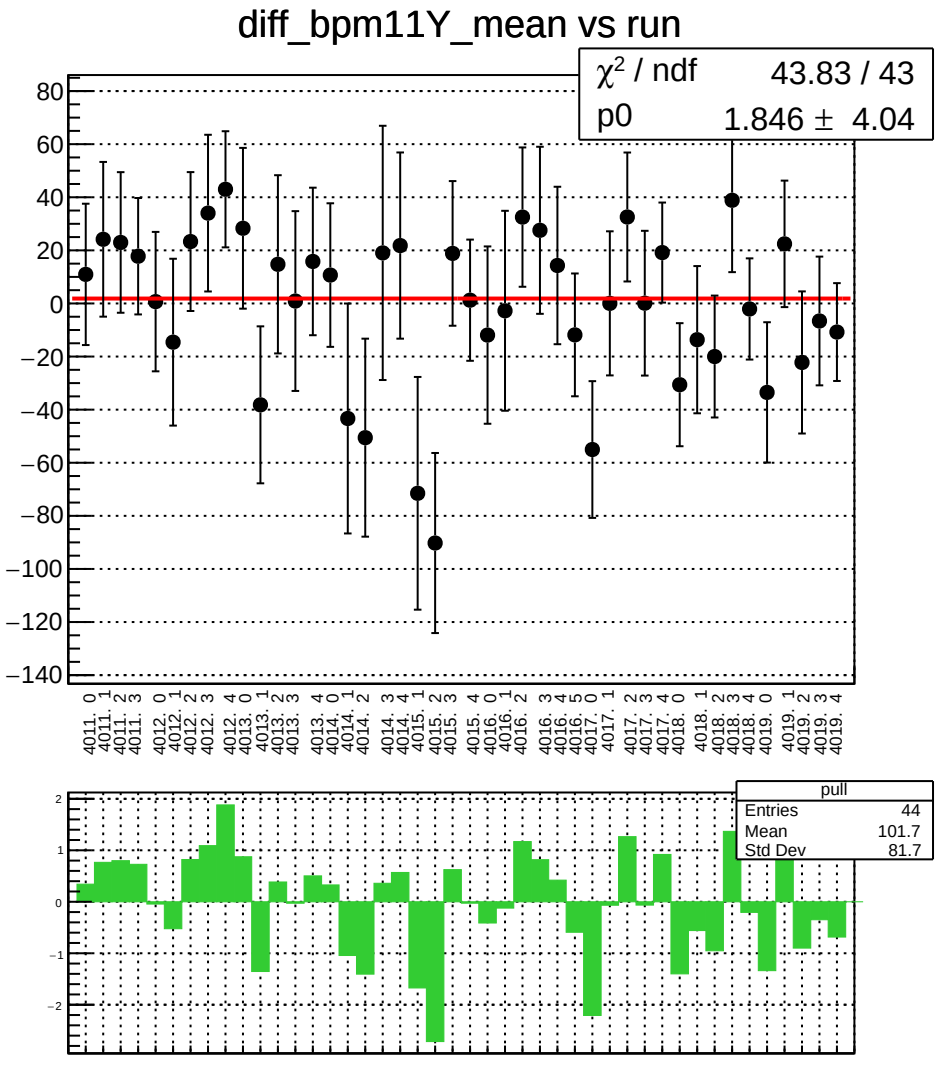

pull1D
Entries 44
Mean −0.009274
Std Dev 1.006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

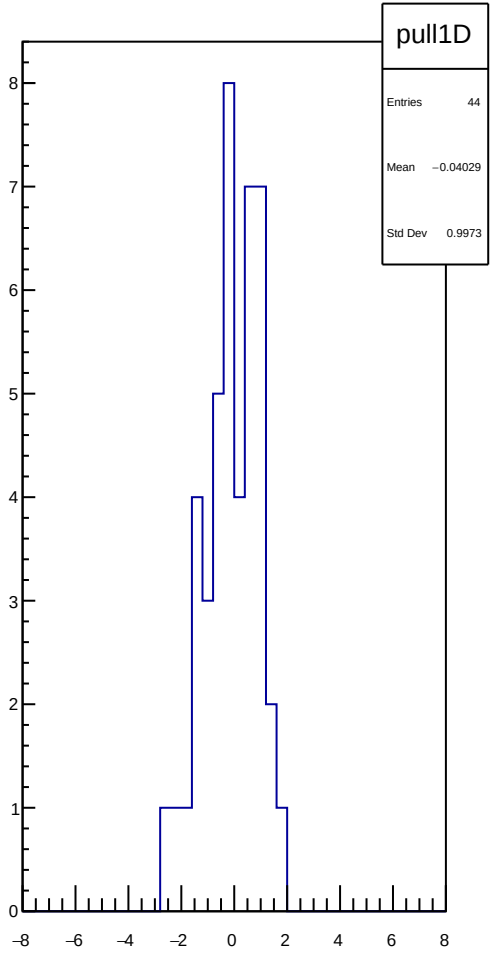

diff_bpm1Y_rms vs run
χ² / ndf 1.849e+04 / 43
p0 7638 ± 8.071
13000
12000
11000
10000
9000
8000
7000
6000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

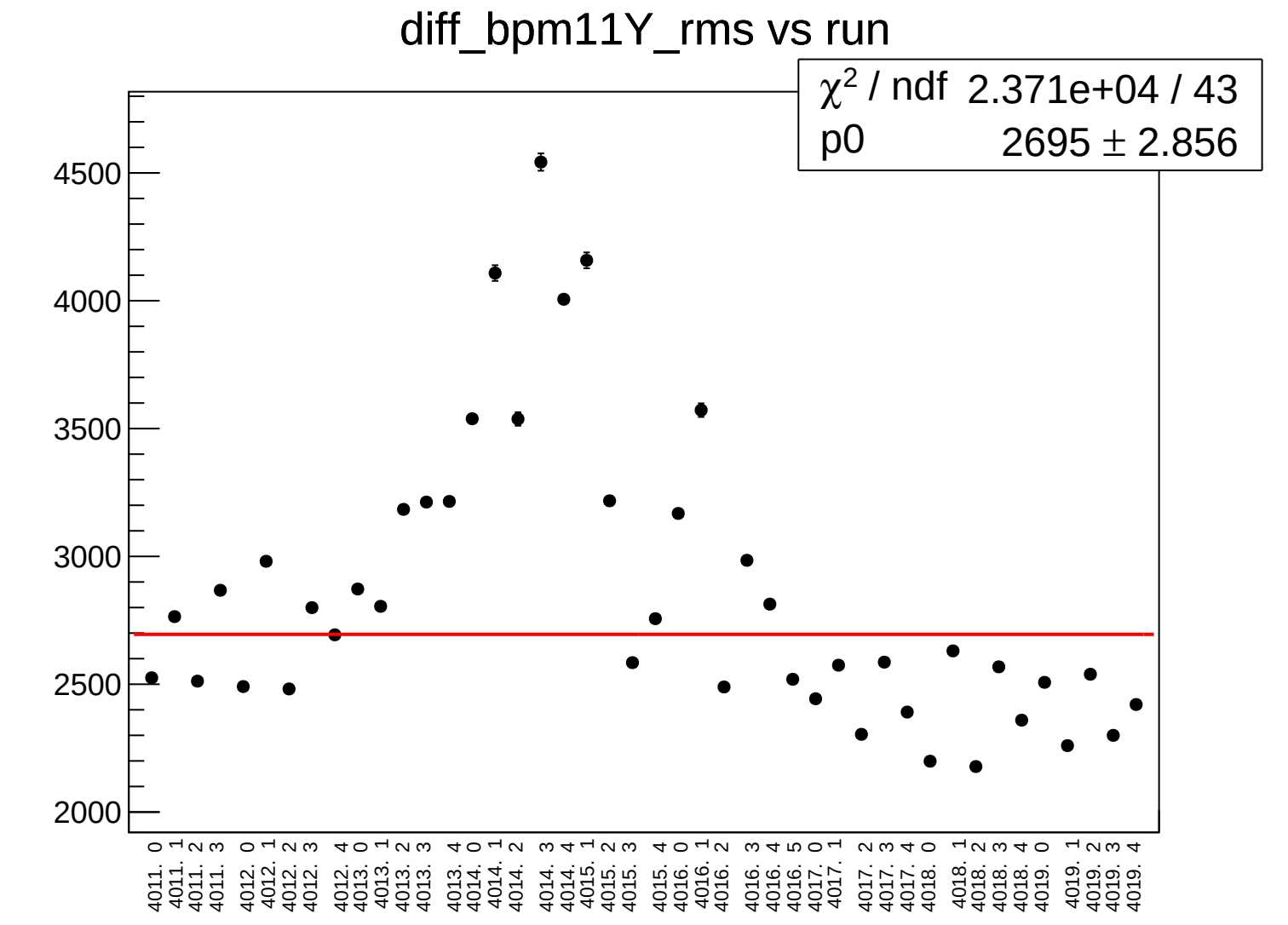

diff_bpm11X_mean vs run
χ² / ndf 34.71 / 43
p0 −4.363 ± 8.43
150
100
50
0
−50
−100
−150
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −38.83
Std Dev 51.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

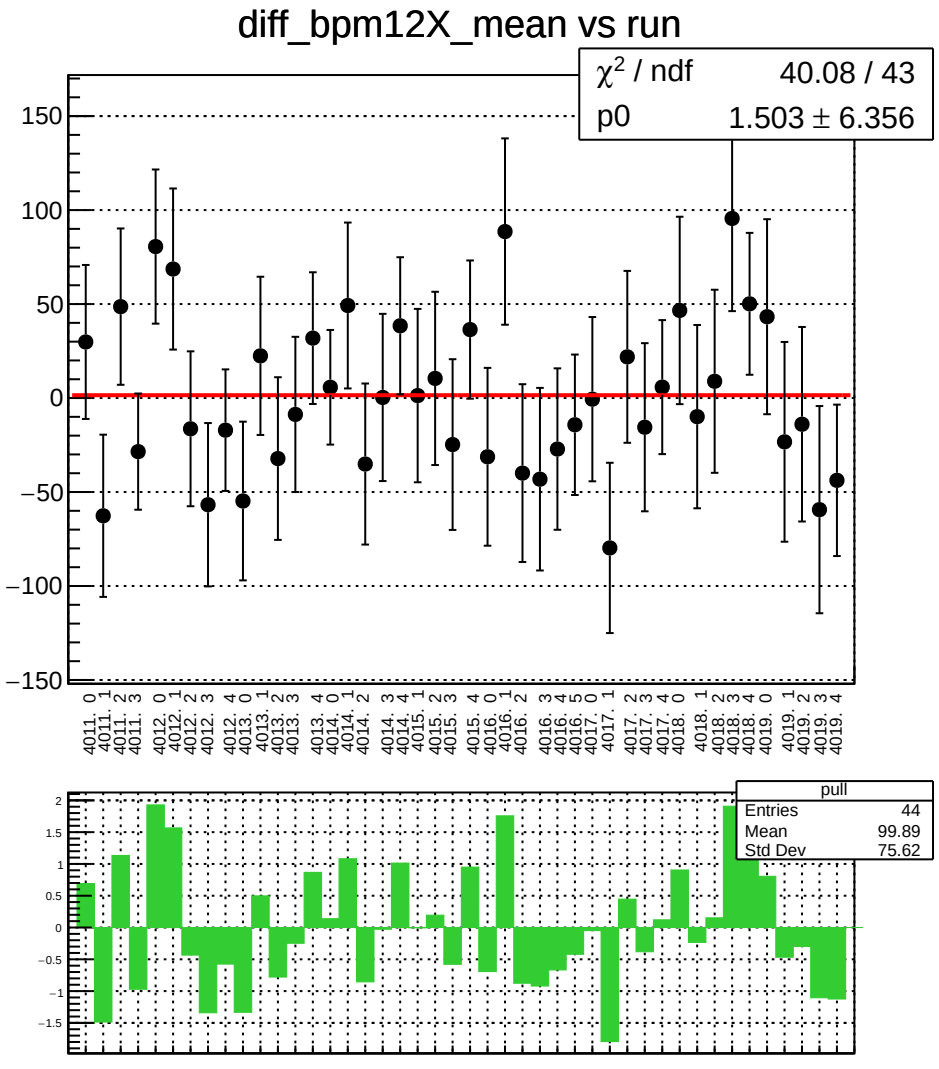

pull1D
Entries 44
Mean −0.0173
Std Dev 0.888
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

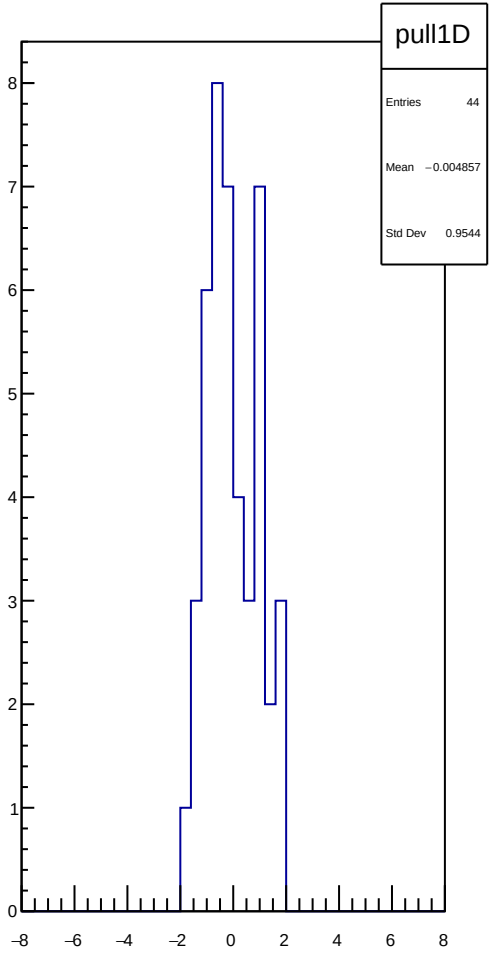

diff_bpm11X_rms vs run
χ² / ndf 3494 / 43
p0 5688 ± 5.961
6600
6400
6200
6000
5800
5600
5400
5200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

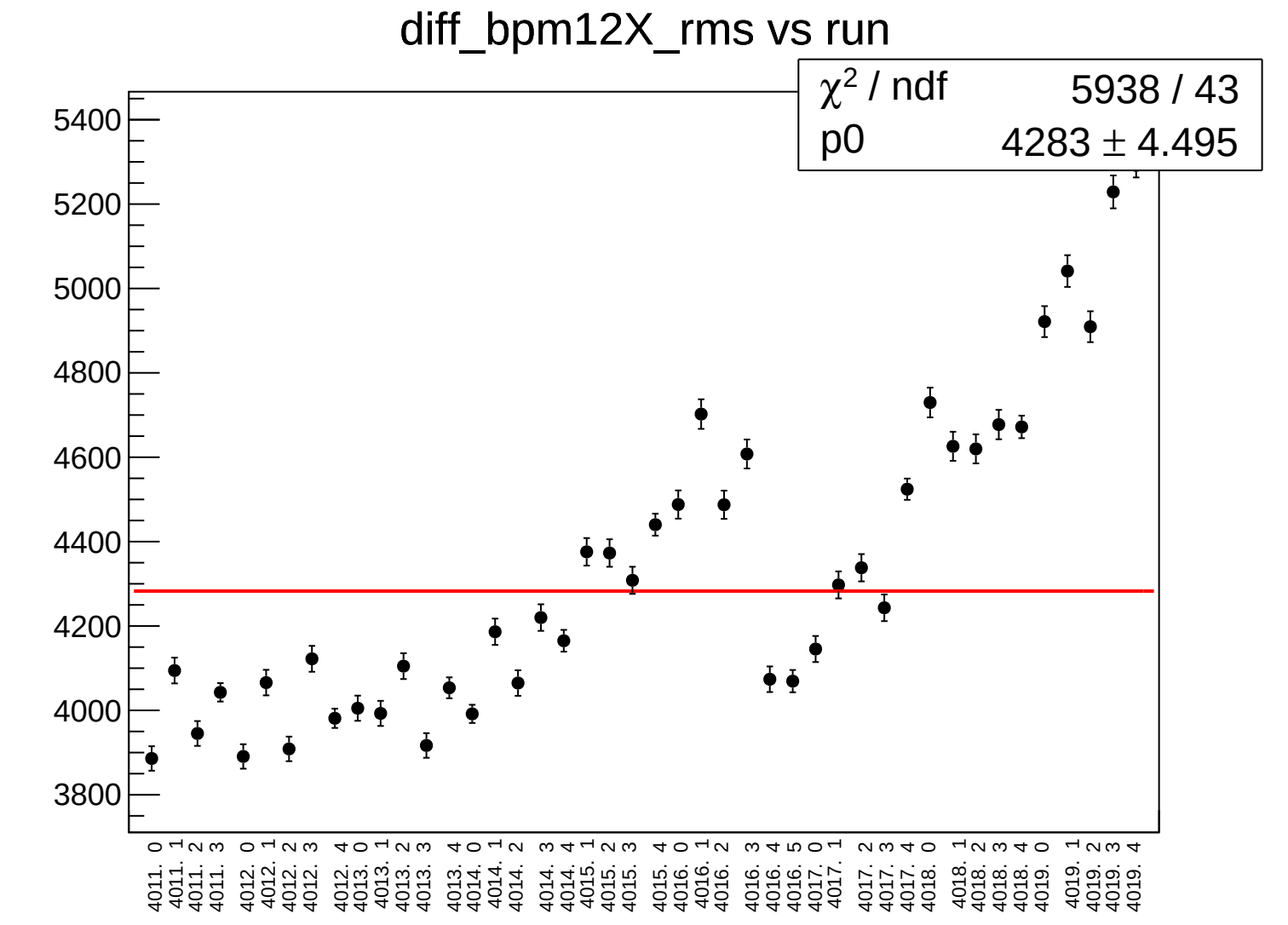

diff_bpm11Y_mean vs run
χ² / ndf 43.83 / 43
p0 1.846 ± 4.04
pull
Entries 44
Mean 101.7
Std Dev 81.7

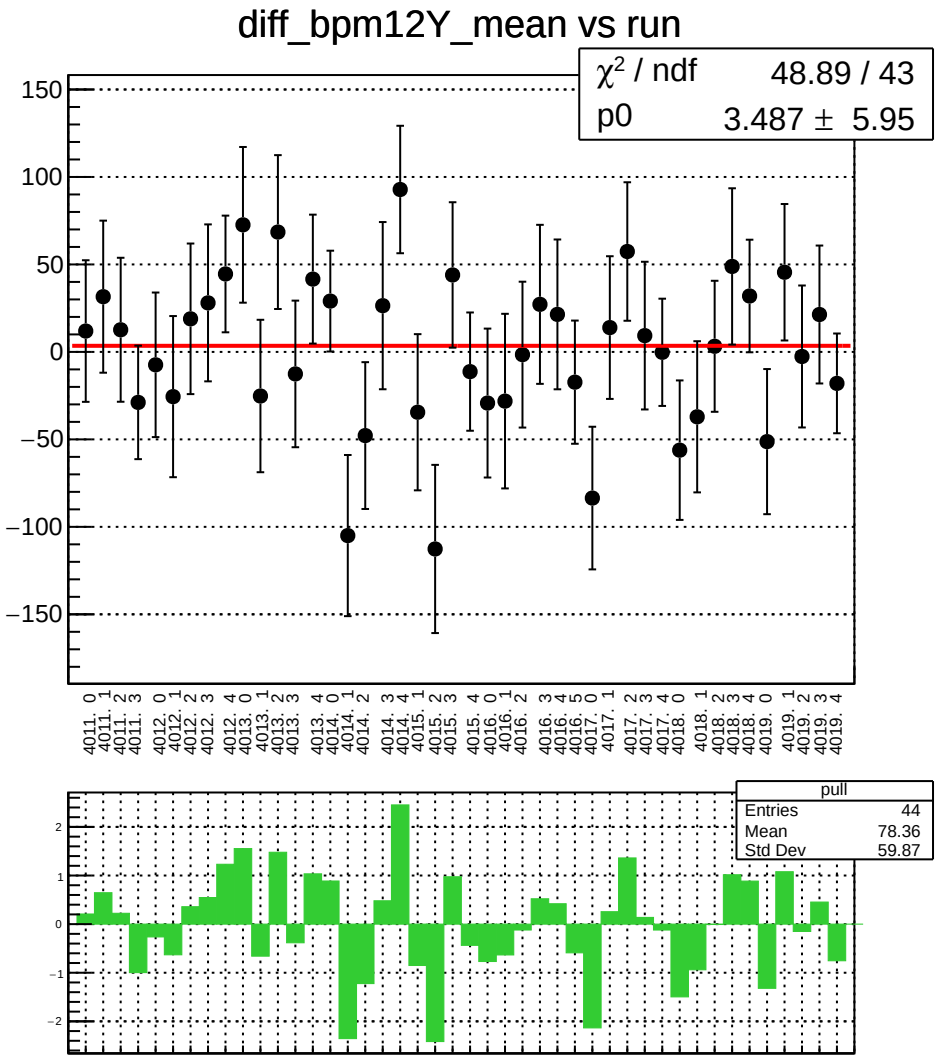

pull1D
Entries 44
Mean −0.04029
Std Dev 0.9973

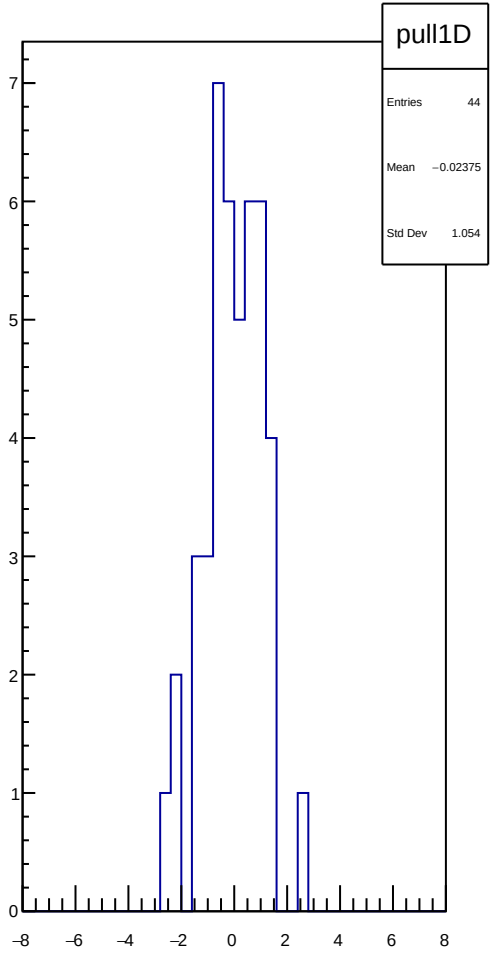

diff_bpm11Y_rms vs run
χ² / ndf 2.371e+04 / 43
p0 2695 ± 2.856
4500
4000
3500
3000
2500
2000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

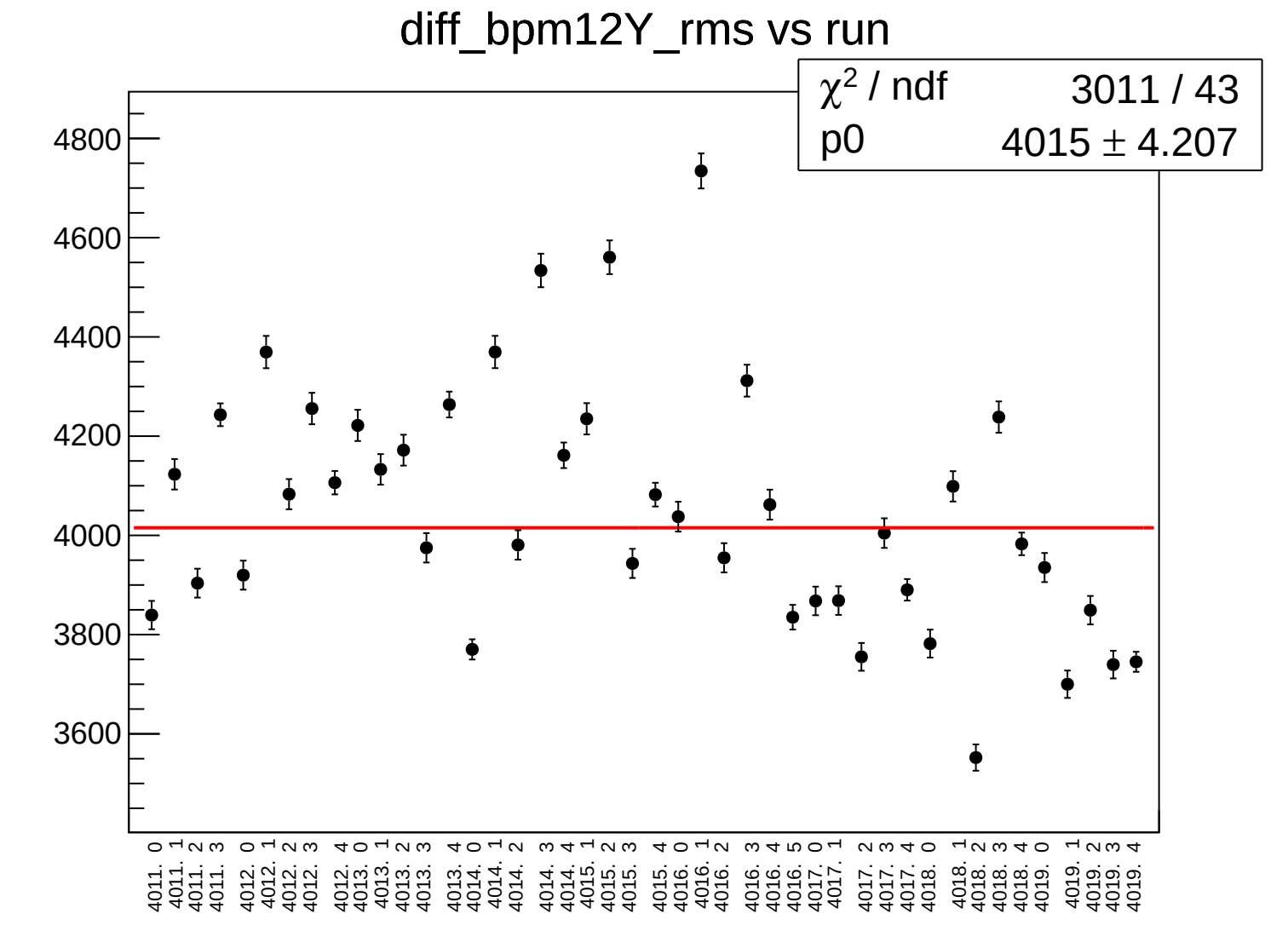

diff_bpm12X_mean vs run
χ^2 / ndf 40.08 / 43
p0 1.503 ± 6.356
150
100
50
0
−50
−100
−150
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 99.89
Std Dev 75.62
2
1.5
1
0.5
0
−0.5
−1
−1.5

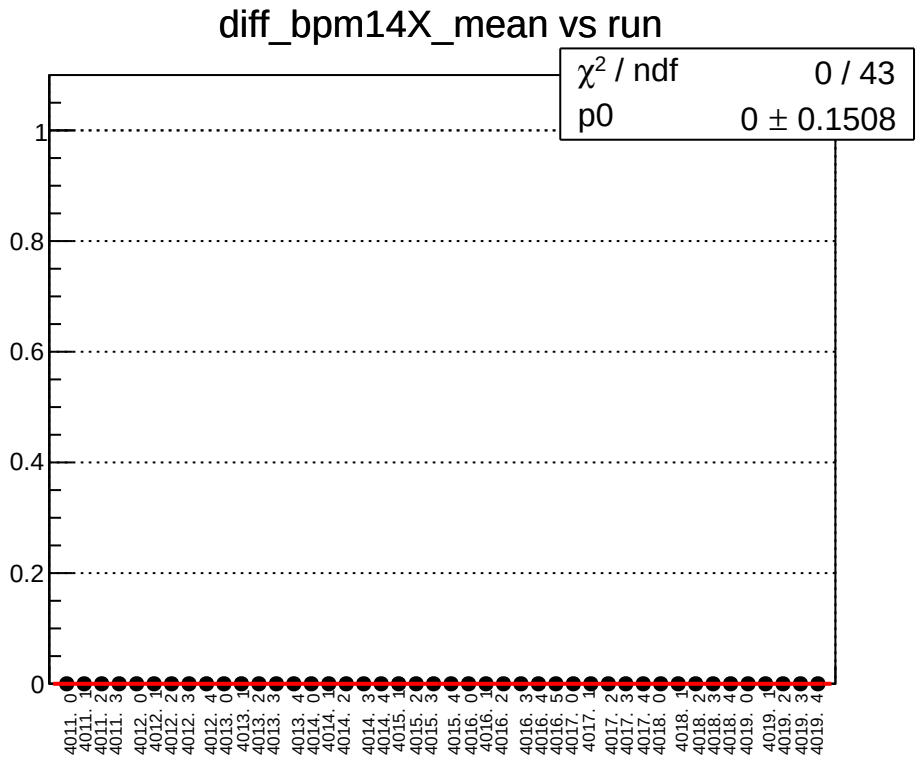

pull1D
Entries 44
Mean −0.004857
Std Dev 0.9544
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

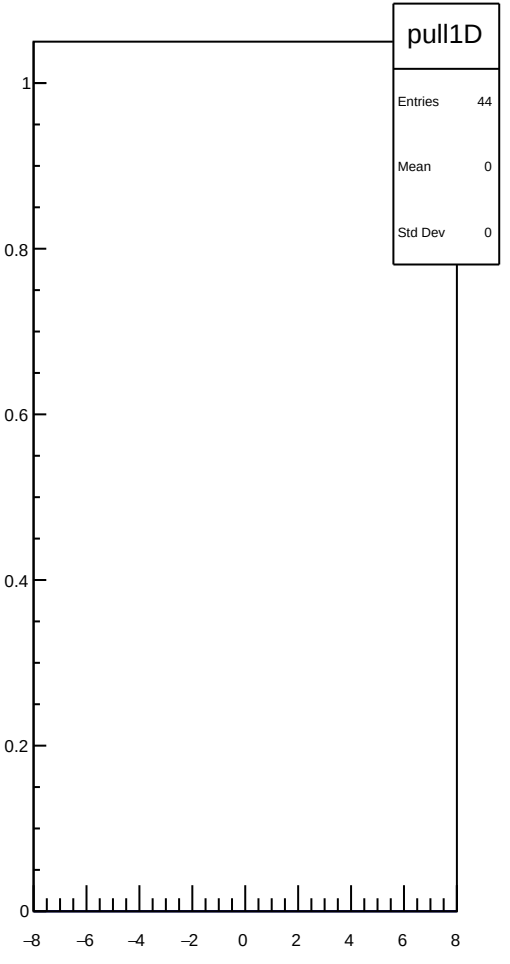

diff_bpm12X_rms vs run
χ² / ndf 5938 / 43
p0 4283 ± 4.495
5400
5200
5000
4800
4600
4400
4200
4000
3800
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

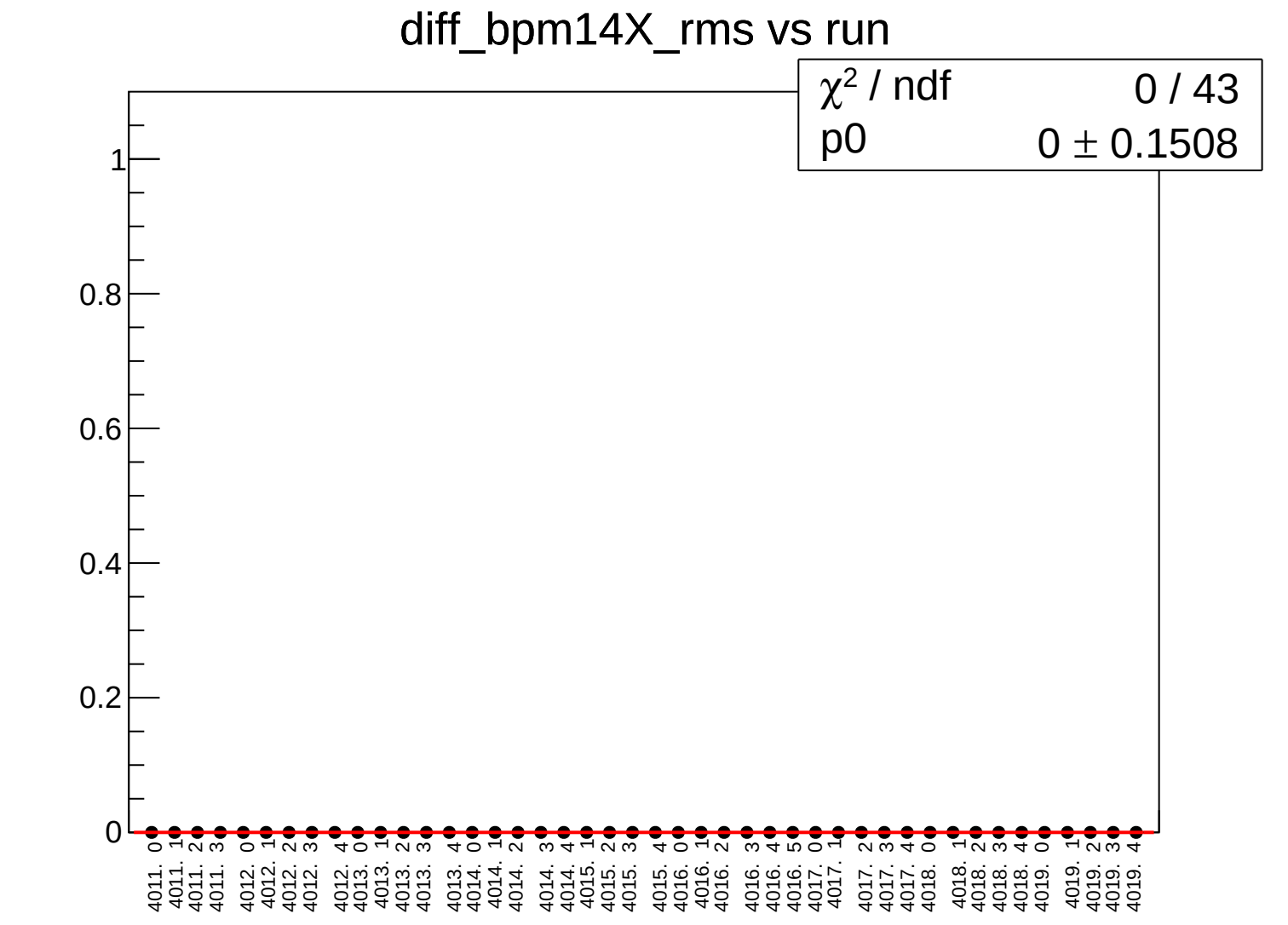

diff_bpm12Y_mean vs run
χ² / ndf 48.89 / 43
p0 3.487 ± 5.95
150
100
50
0
−50
−100
−150
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 78.36
Std Dev 59.87
2
1
0
−1
−2

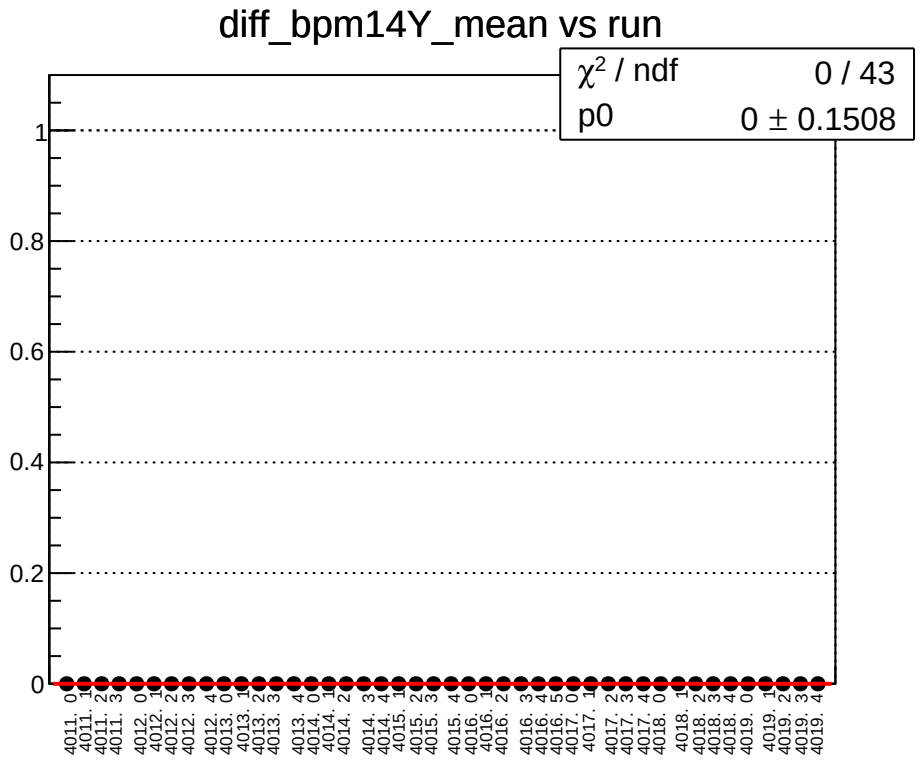

pull1D
Entries 44
Mean −0.02375
Std Dev 1.054
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

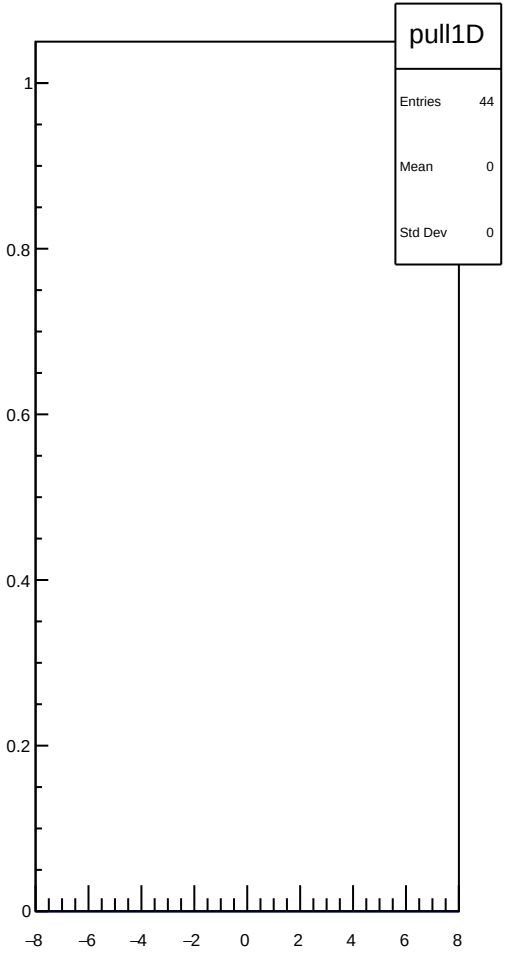

diff_bpm12Y_rms vs run
χ² / ndf 3011 / 43
p0 4015 ± 4.207
4800
4600
4400
4200
4000
3800
3600
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

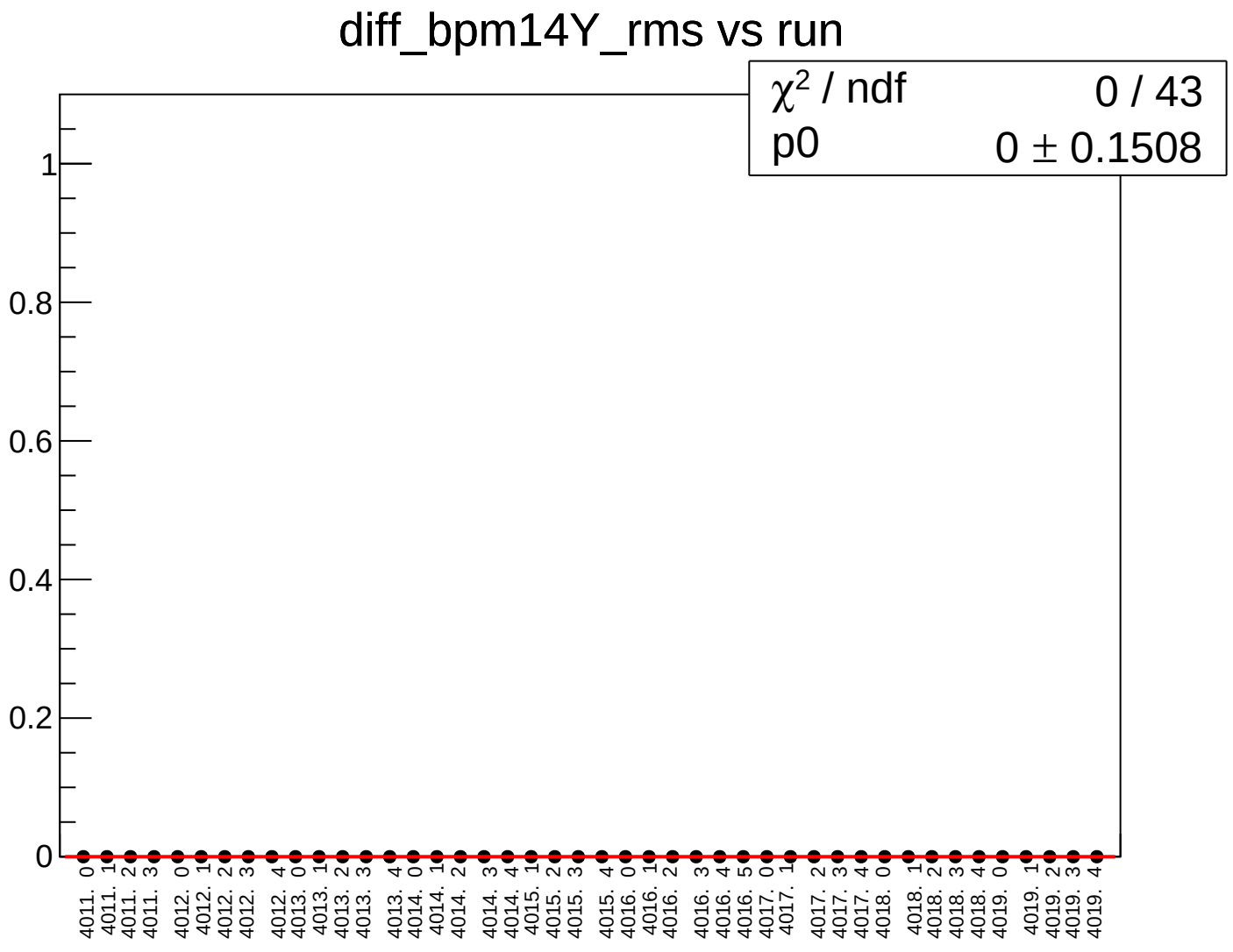

diff_bpm14X_mean vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

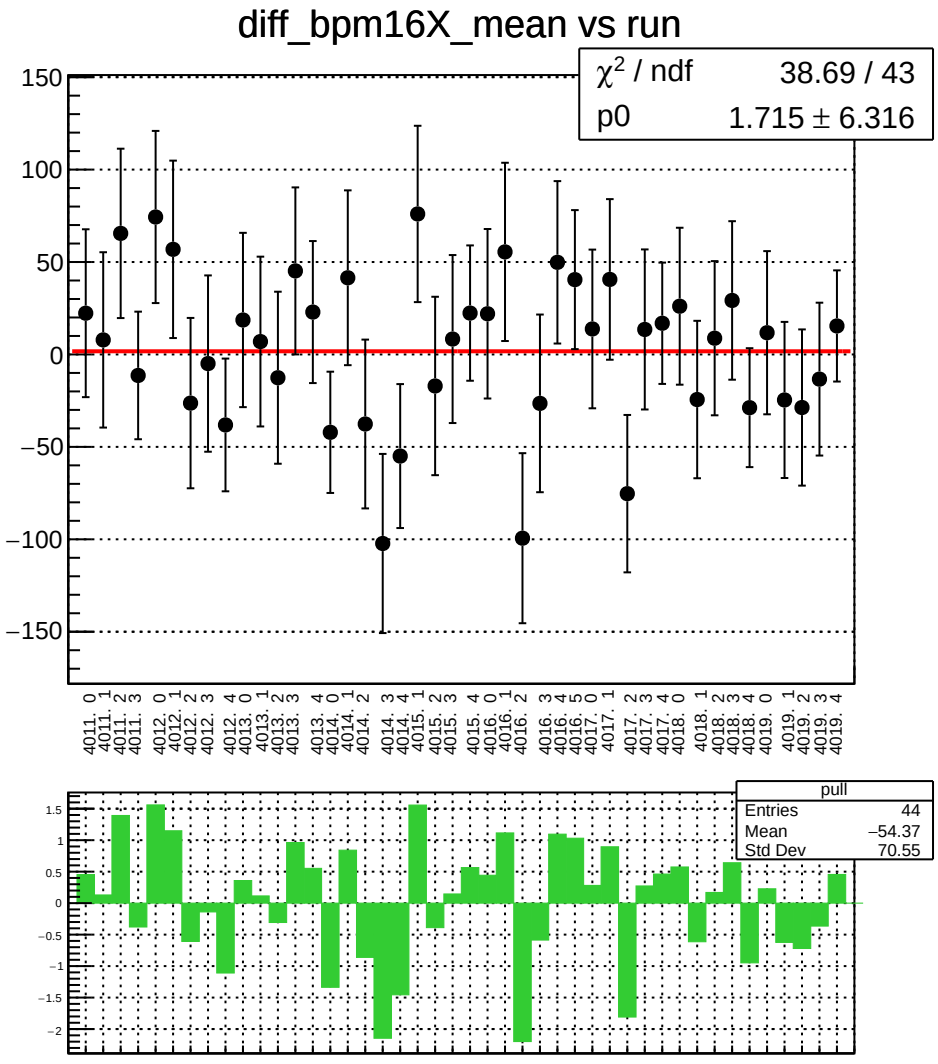

pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

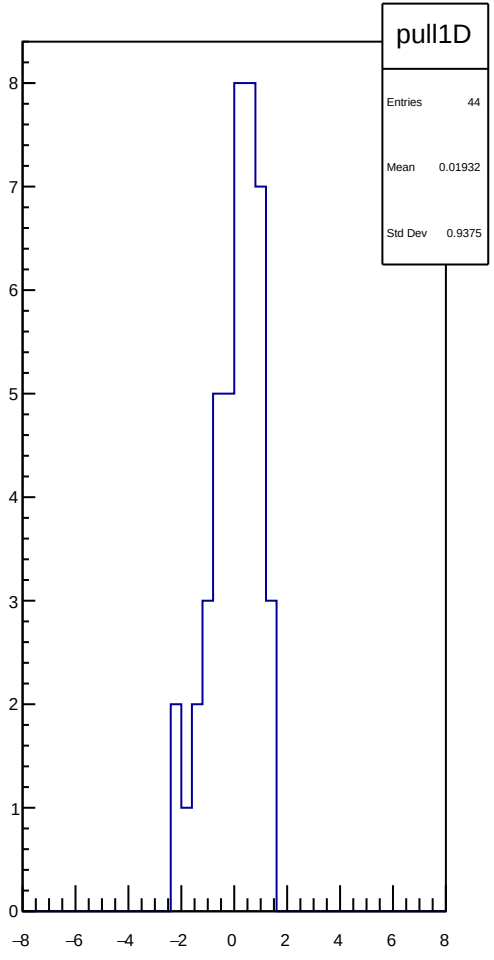

diff_bpm14X_rms vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

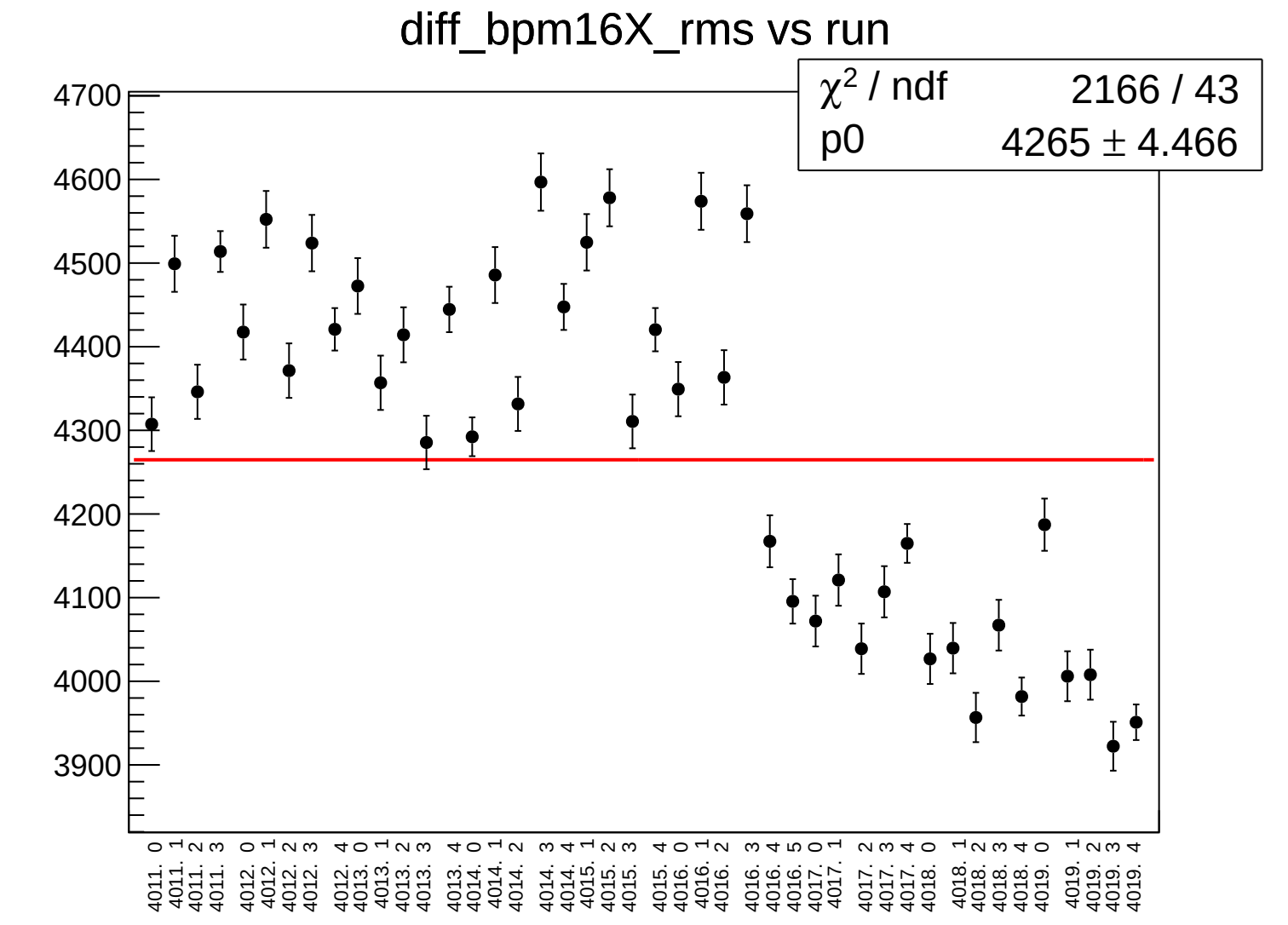

diff_bpm14Y_mean vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

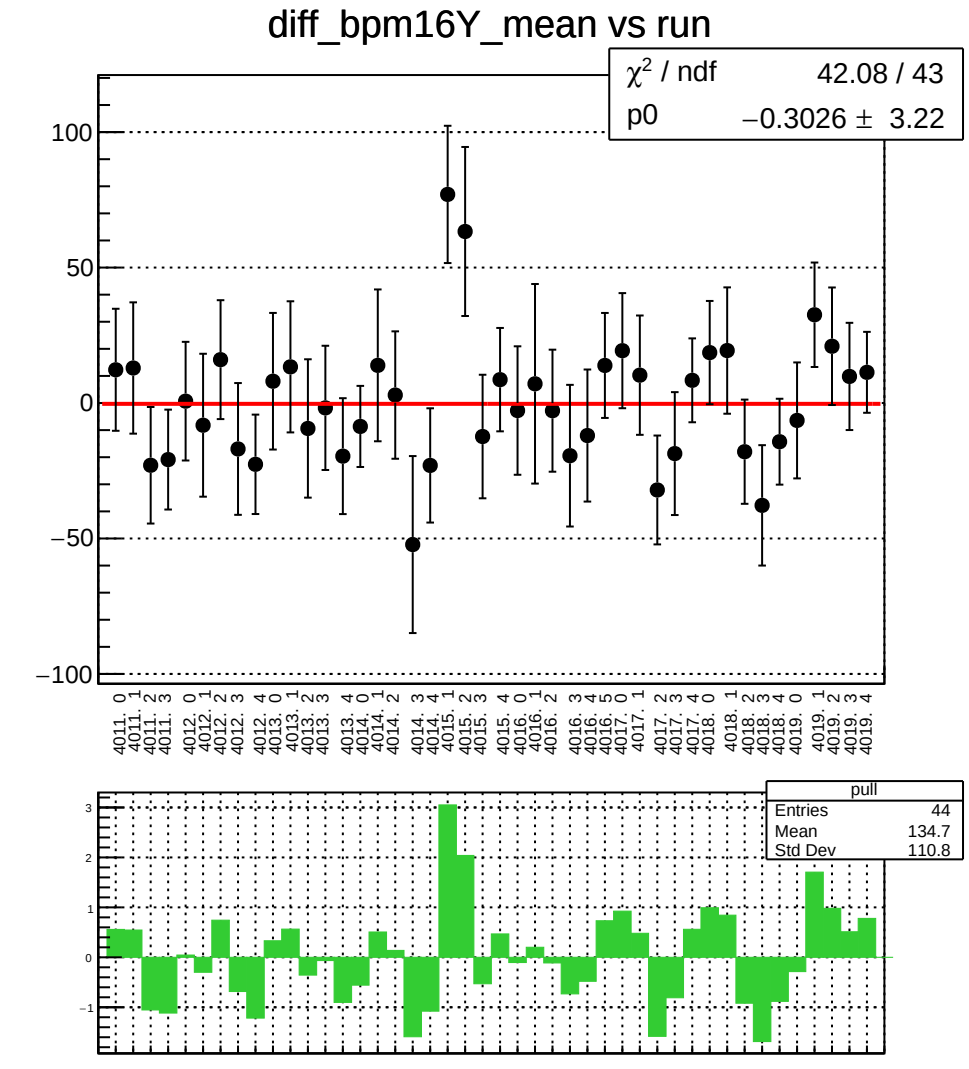

pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

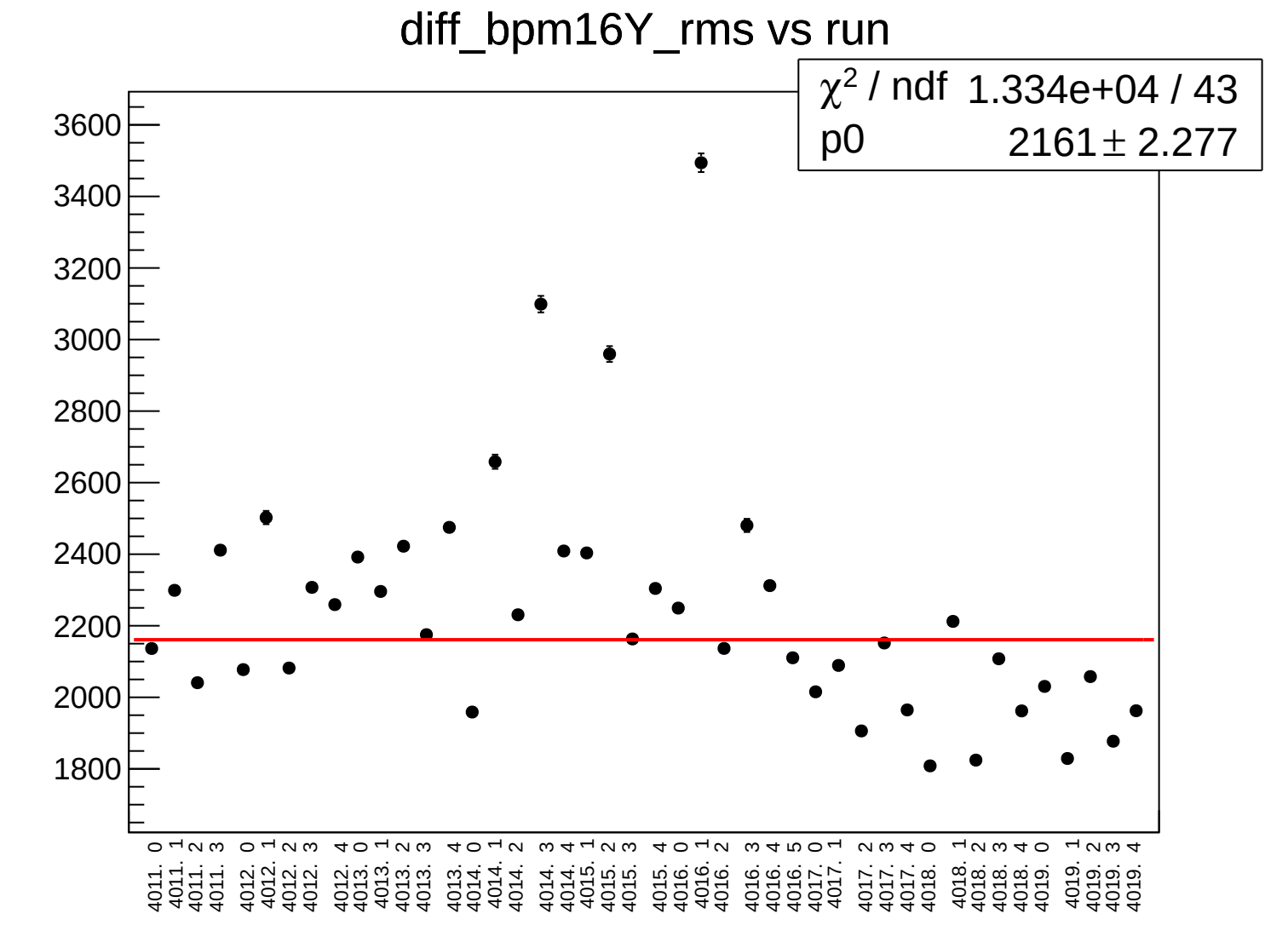

diff_bpm14Y_rms vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

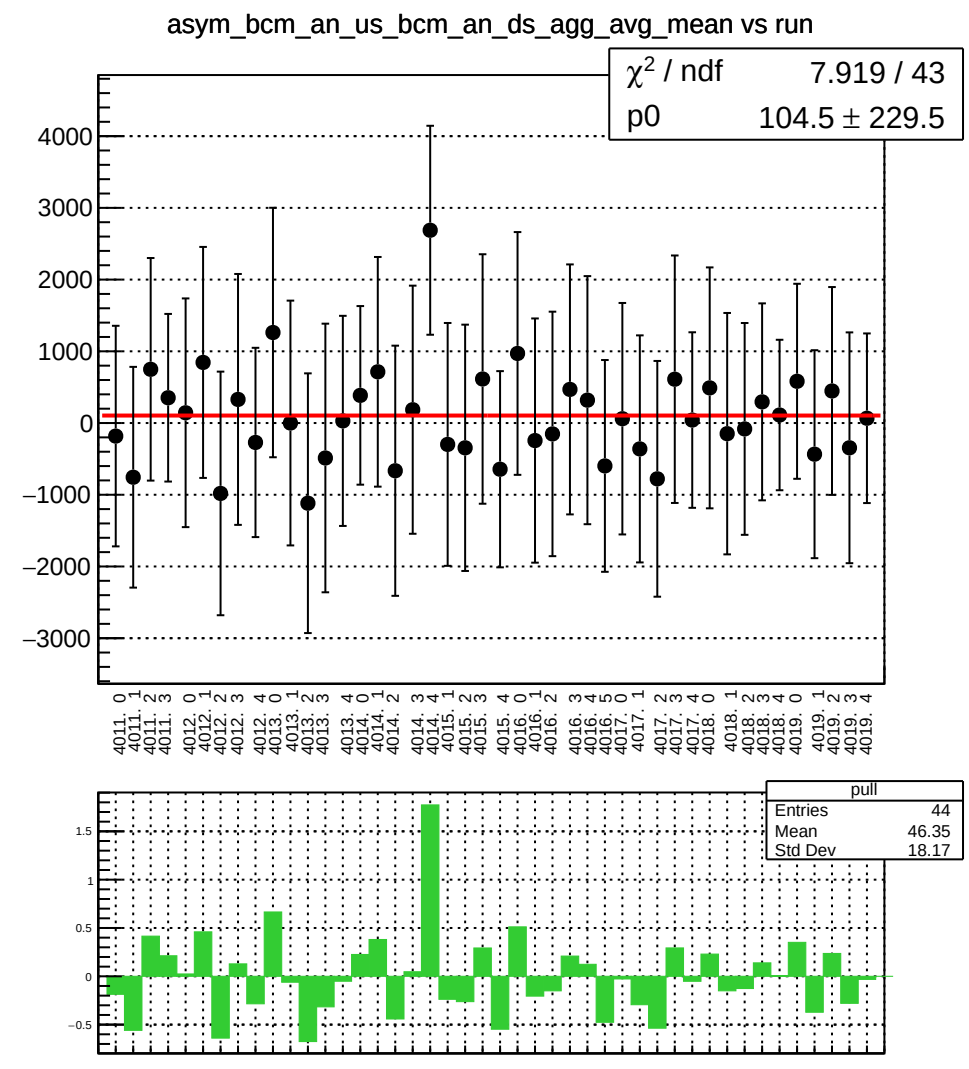

diff_bpm16X_mean vs run
χ^2 / ndf 38.69 / 43
p0 1.715 ± 6.316
150
100
50
0
−50
−100
−150
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −54.37
Std Dev 70.55
1.5
1
0.5
0
−0.5
−1
−1.5
−2

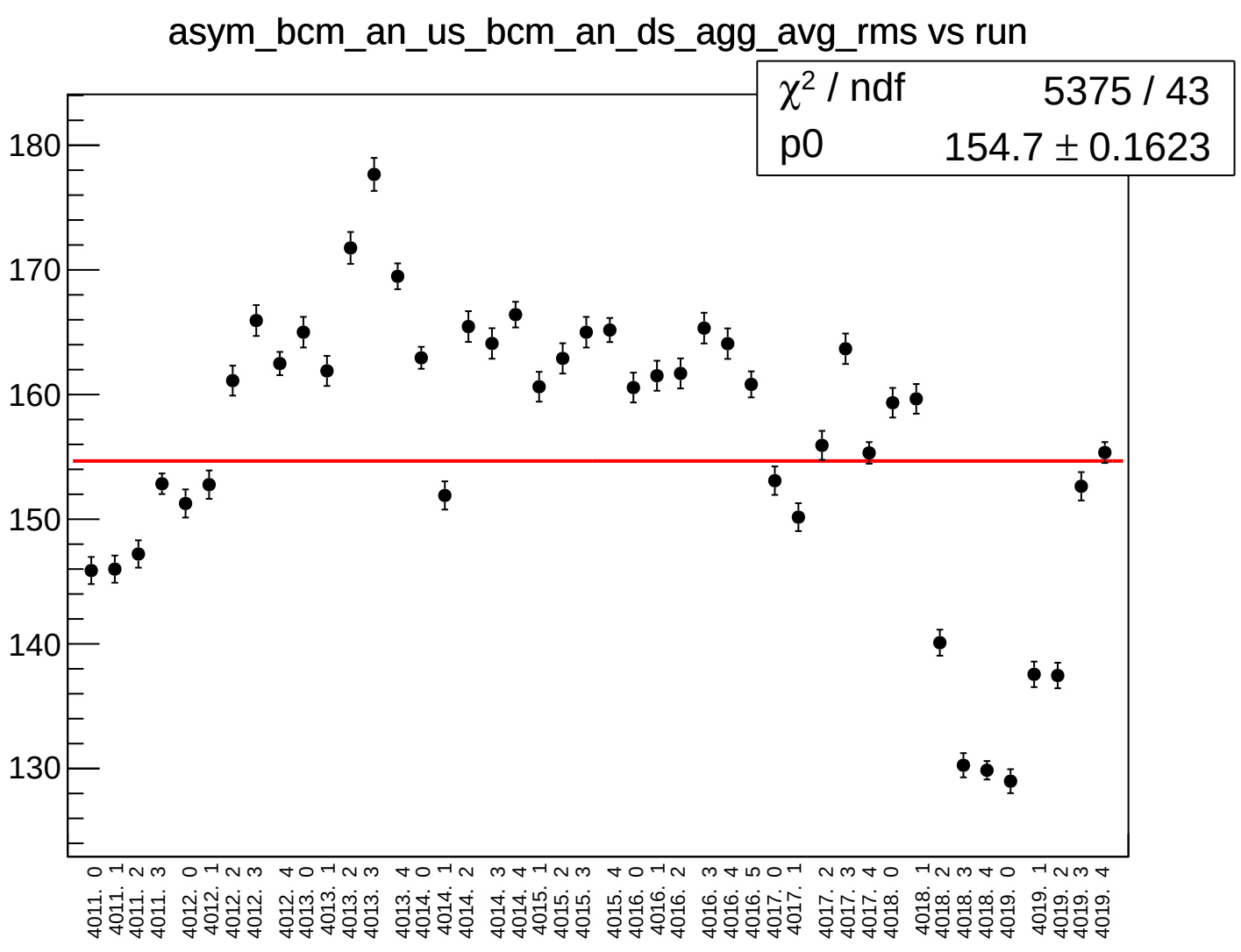

pull1D
Entries 44
Mean 0.01932
Std Dev 0.9375
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

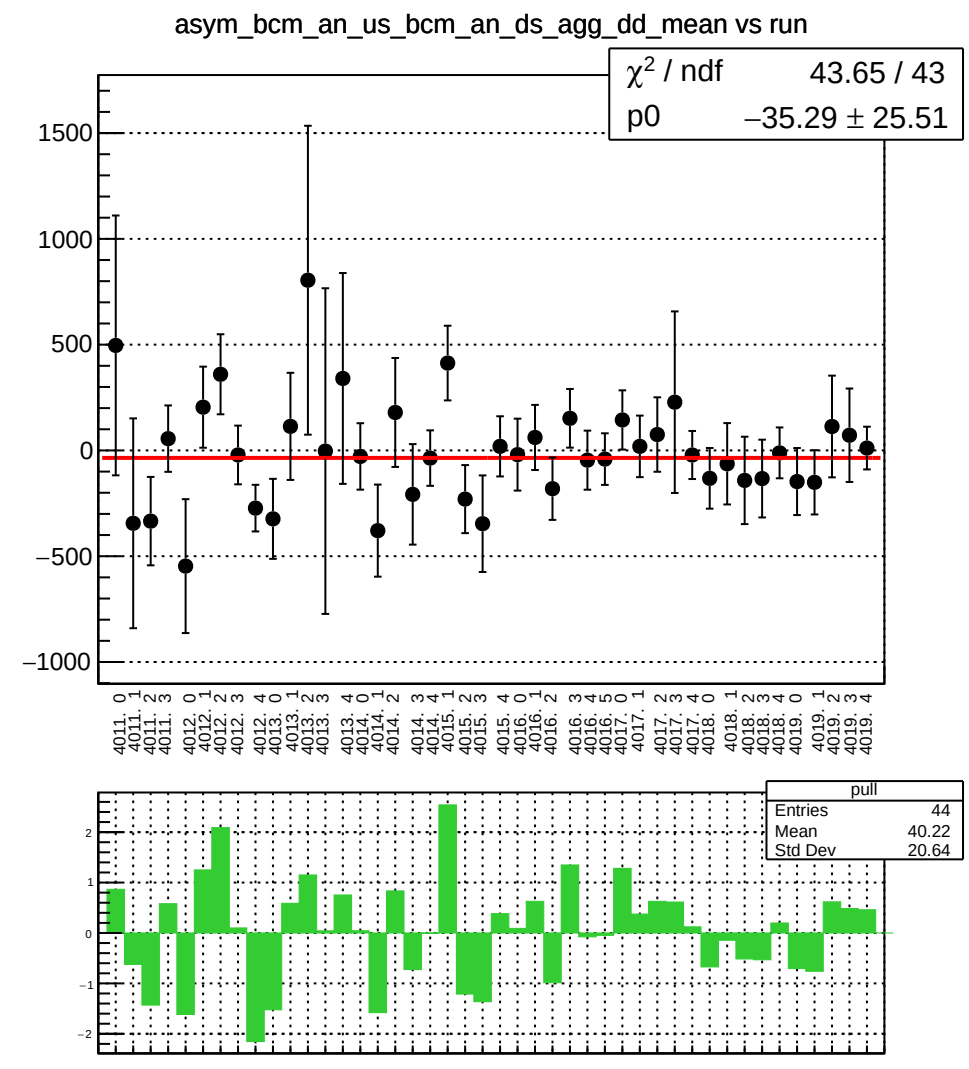

diff_bpm16X_rms vs run
χ² / ndf 2166 / 43
p0 4265 ± 4.466
4700
4600
4500
4400
4300
4200
4100
4000
3900
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

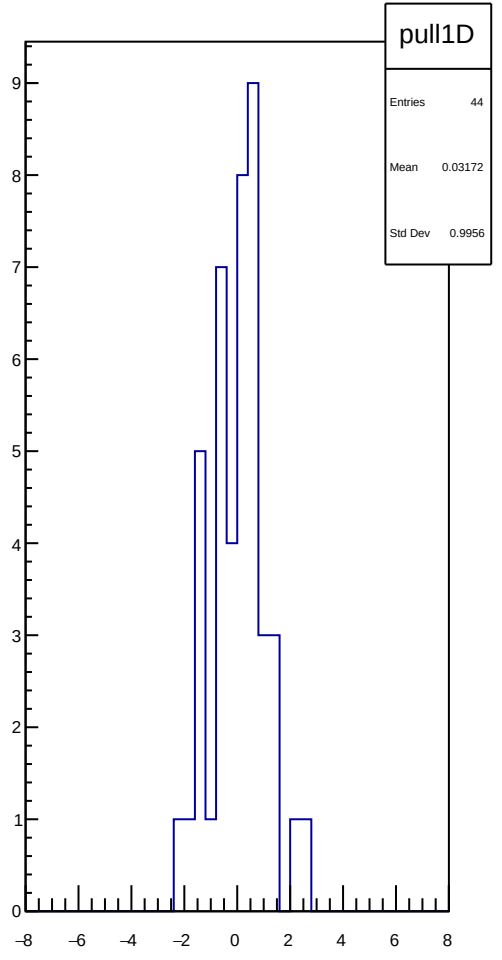

diff_bpm16Y_mean vs run
χ² / ndf 42.08 / 43
p0 −0.3026 ± 3.22
100
50
0
−50
−100
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 134.7
Std Dev 110.8
3
2
1
0
−1
pull1D
Entries 44
Mean 0.01505
Std Dev 0.9778
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

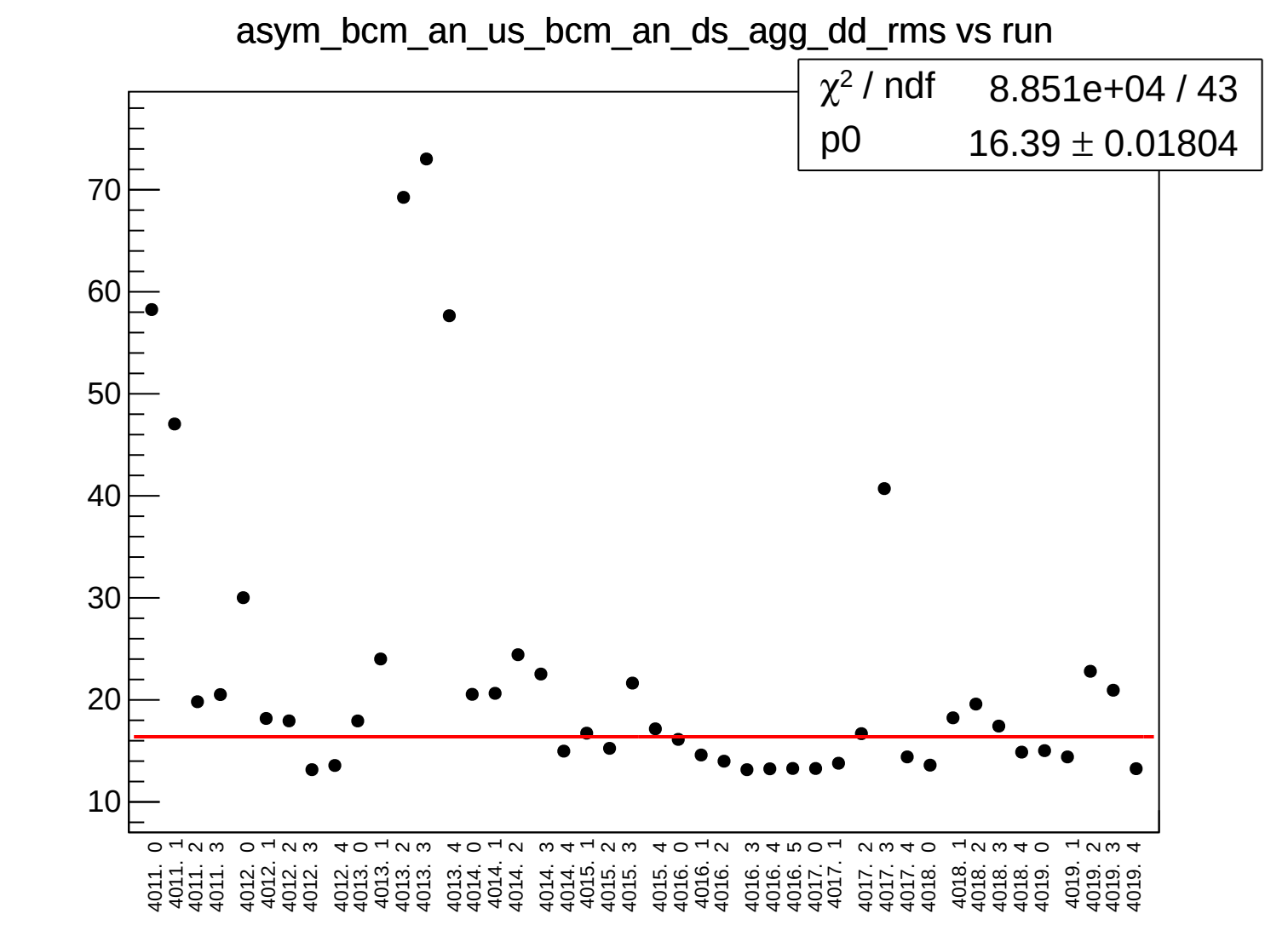

diff_bpm16Y_rms vs run
χ² / ndf 1.334e+04 / 43
p0 2161 ± 2.277
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4


asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.919 / 43
p0 104.5 ± 229.5
4000
3000
2000
1000
0
−1000
−2000
−3000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 46.35
Std Dev 18.17
1.5
1
0.5
0
−0.5
pull1D
Entries 44
Mean −0.005302
Std Dev 0.4242
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5375 / 43
p0 154.7 ± 0.1623
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4


asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 43.65 / 43
p0 −35.29 ± 25.51
1500
1000
500
0
−500
−1000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 40.22
Std Dev 20.64
2
1
0
−1
−2


pull1D
Entries 44
Mean 0.03172
Std Dev 0.9956
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 8.851e+04 / 43
p0 16.39 ± 0.01804
70
60
50
40
30
20
10
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
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4018. 2
4018. 3
4018. 4
4019. 0
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4019. 2
4019. 3
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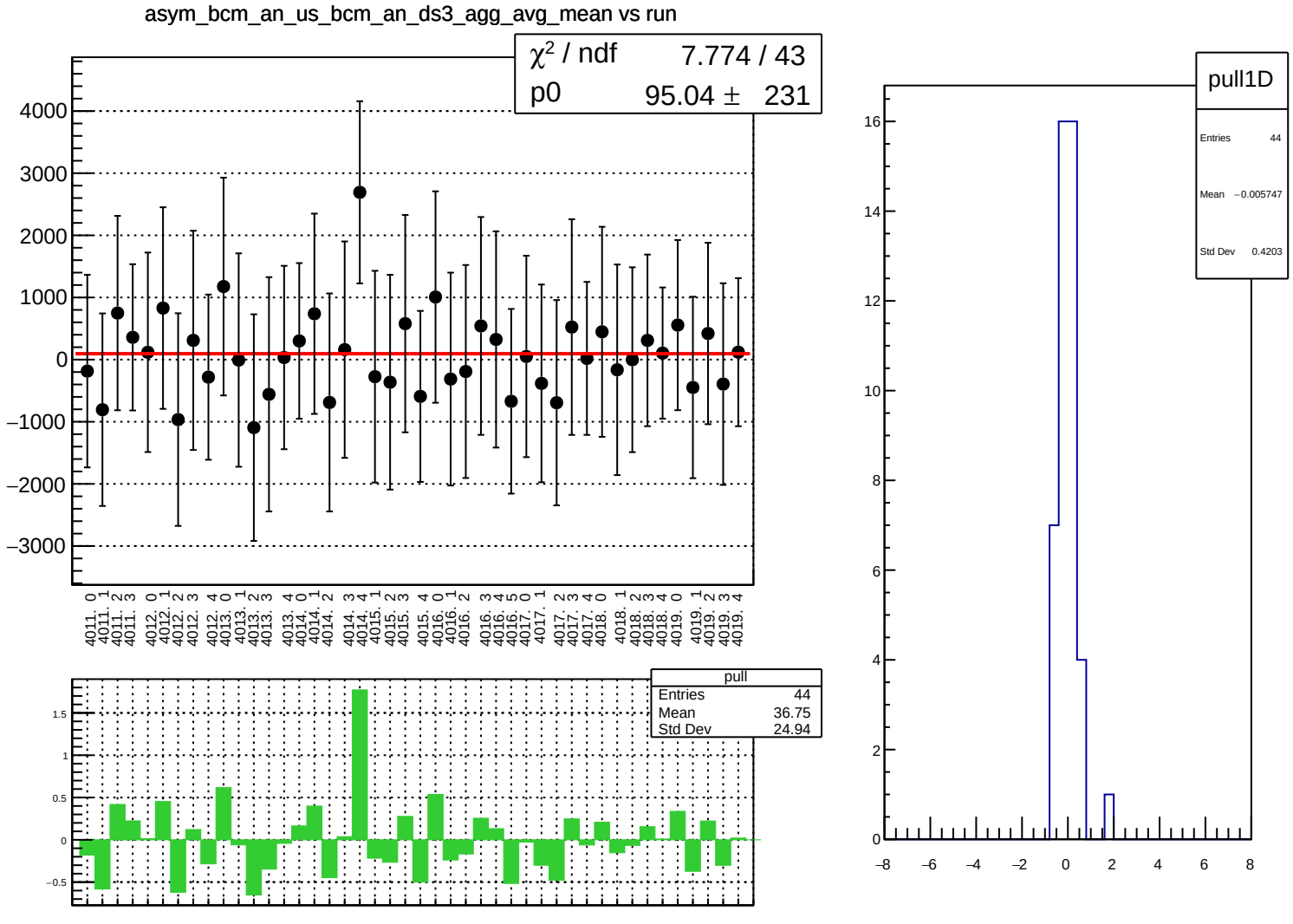
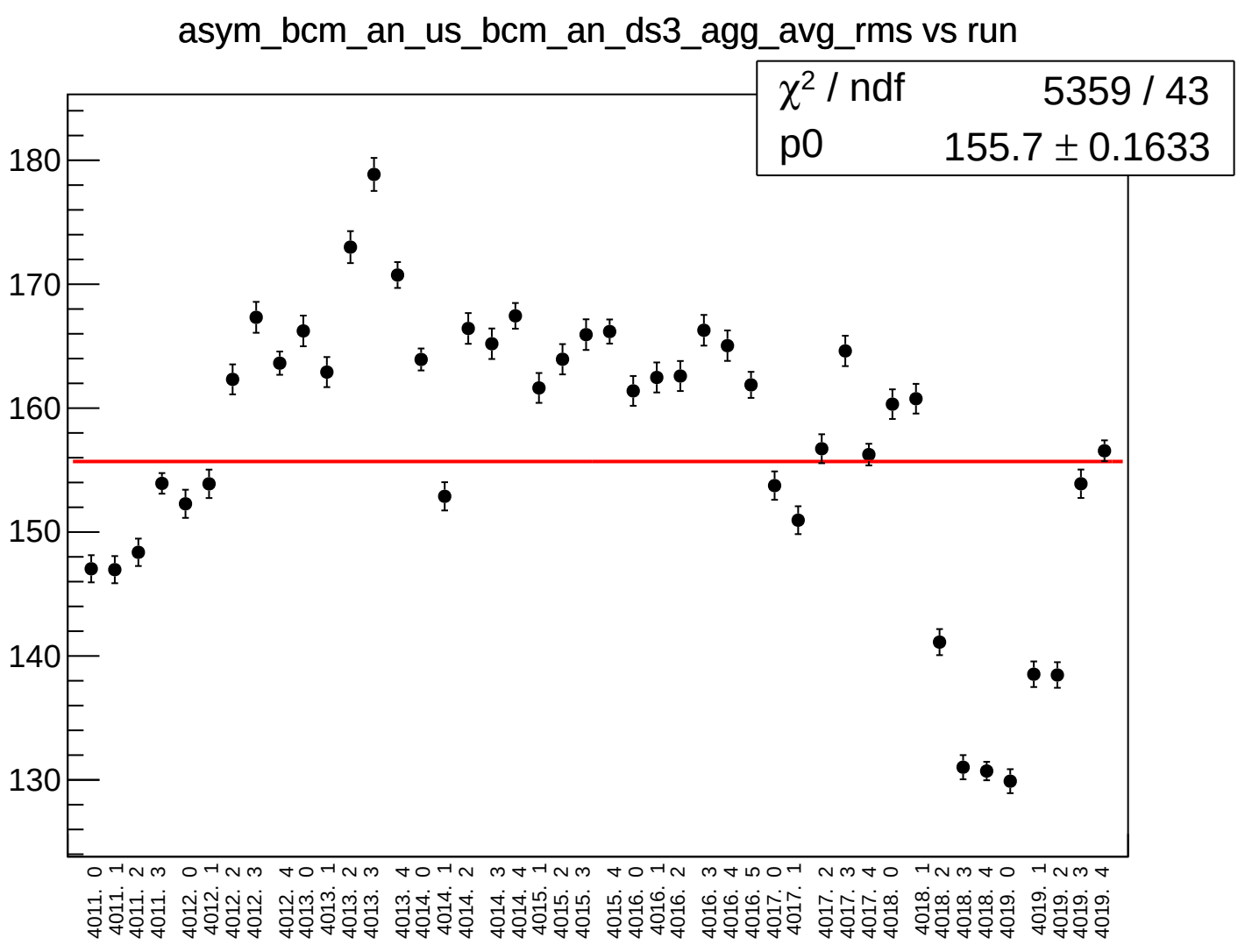

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 7.774 / 43
p0 95.04 ± 231
4000
3000
2000
1000
0
−1000
−2000
−3000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 36.75
Std Dev 24.94
1.5
1
0.5
0
−0.5
pull1D
Entries 44
Mean −0.005747
Std Dev 0.4203
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 5359 / 43
p0 155.7 ± 0.1633
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
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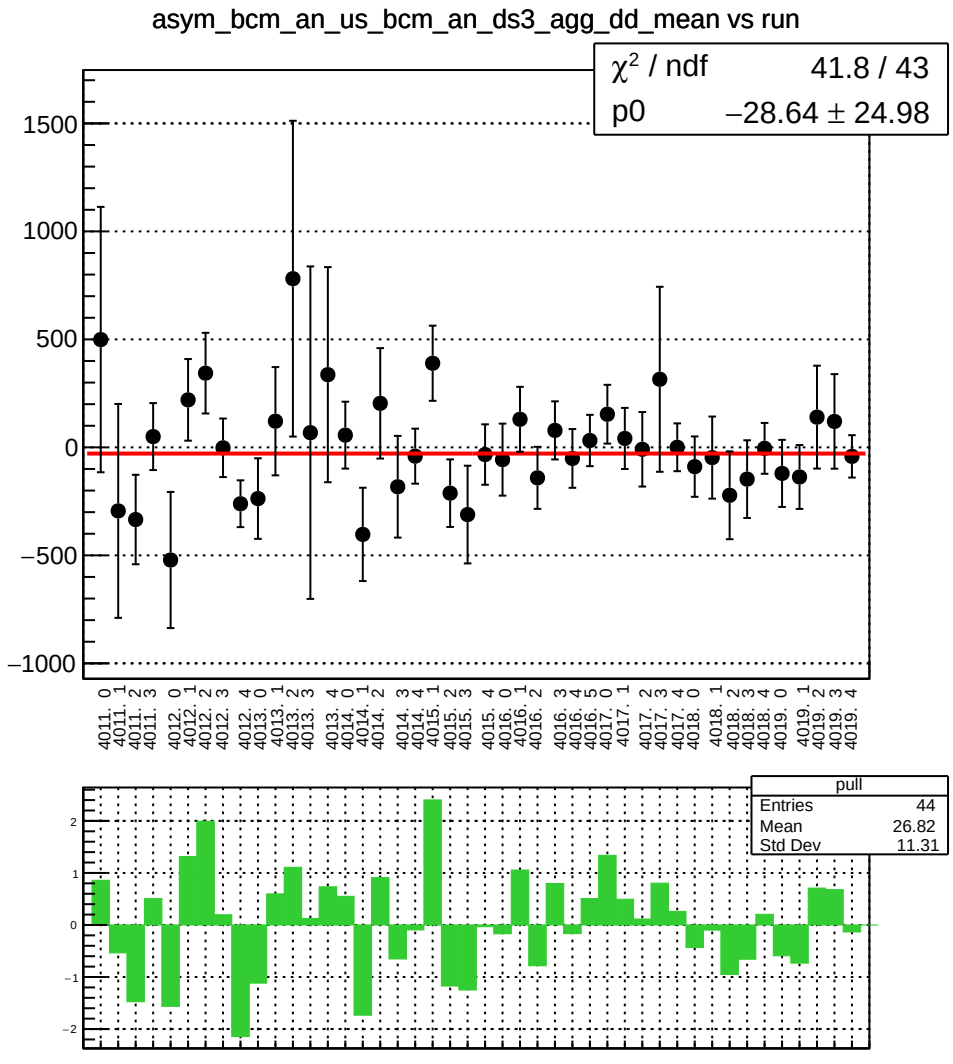
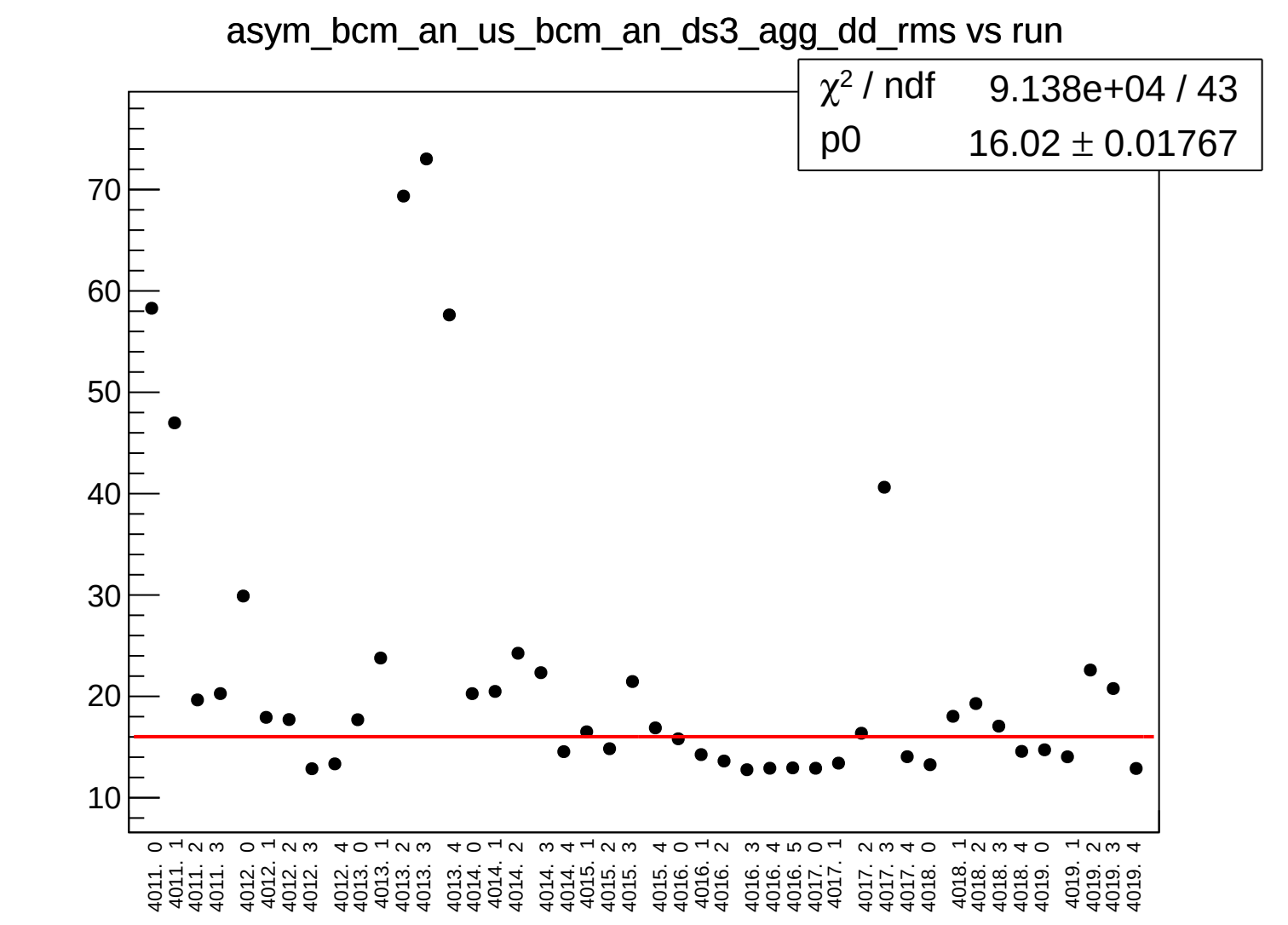
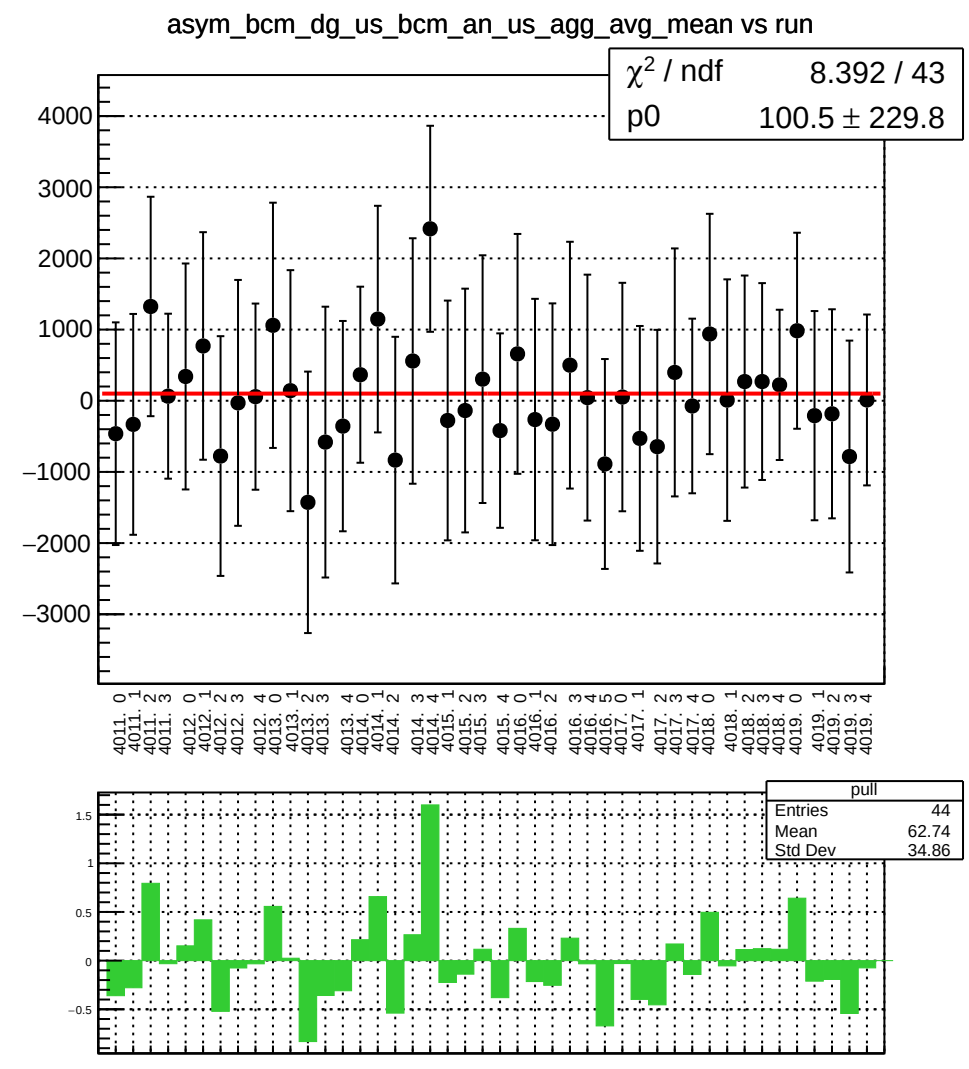
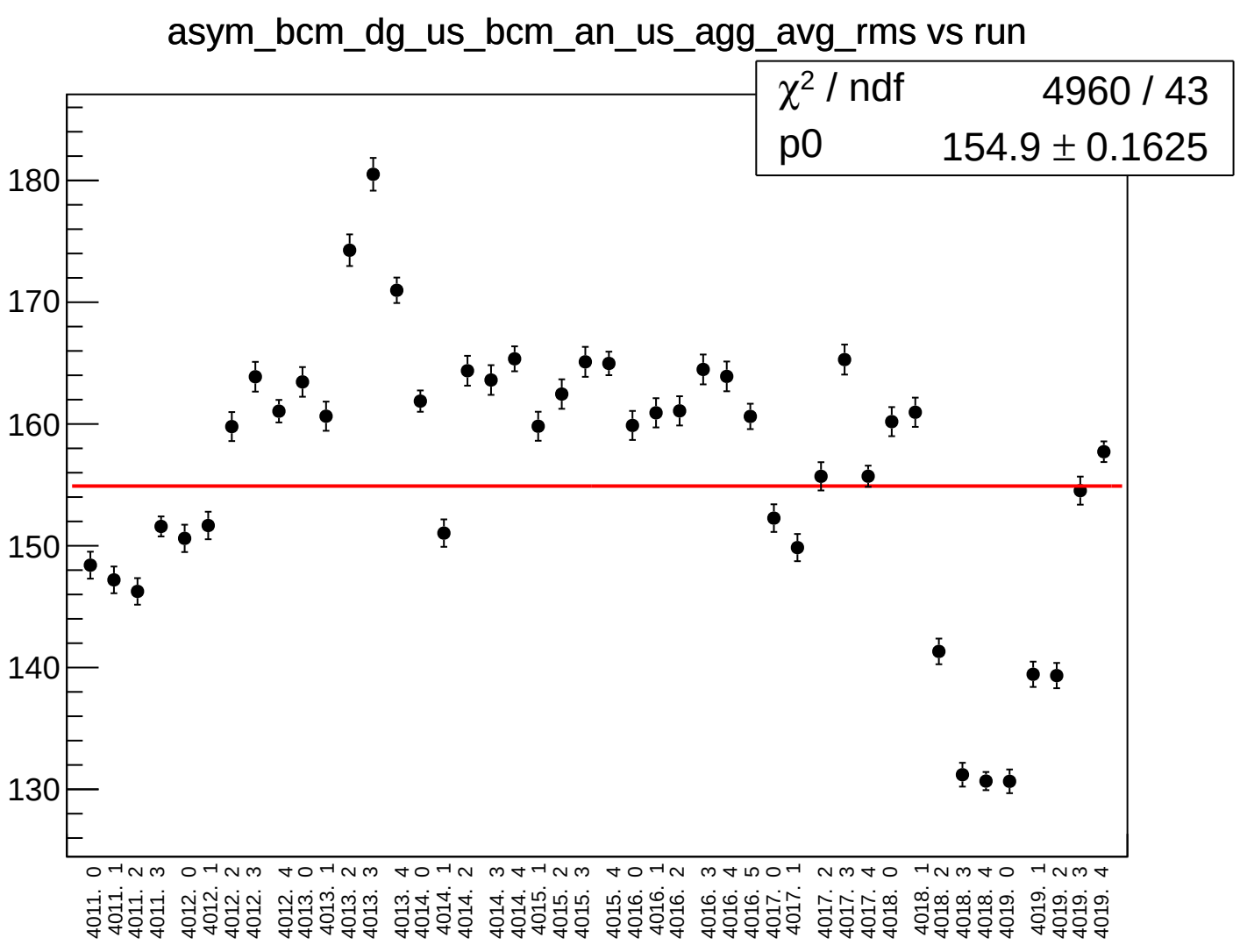
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4


asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 41.8 / 43
p0 −28.64 ± 24.98
1500
1000
500
0
−500
−1000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 26.82
Std Dev 11.31
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.0404
Std Dev 0.9738
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 9.138e+04 / 43
p0 16.02 ± 0.01767
70
60
50
40
30
20
10
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4


asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 8.392 / 43
p0 100.5 ± 229.8
4000
3000
2000
1000
0
−1000
−2000
−3000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 62.74
Std Dev 34.86
1.5
1
0.5
0
−0.5
pull1D
Entries 44
Mean −0.007534
Std Dev 0.4367
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4960 / 43
p0 154.9 ± 0.1625
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
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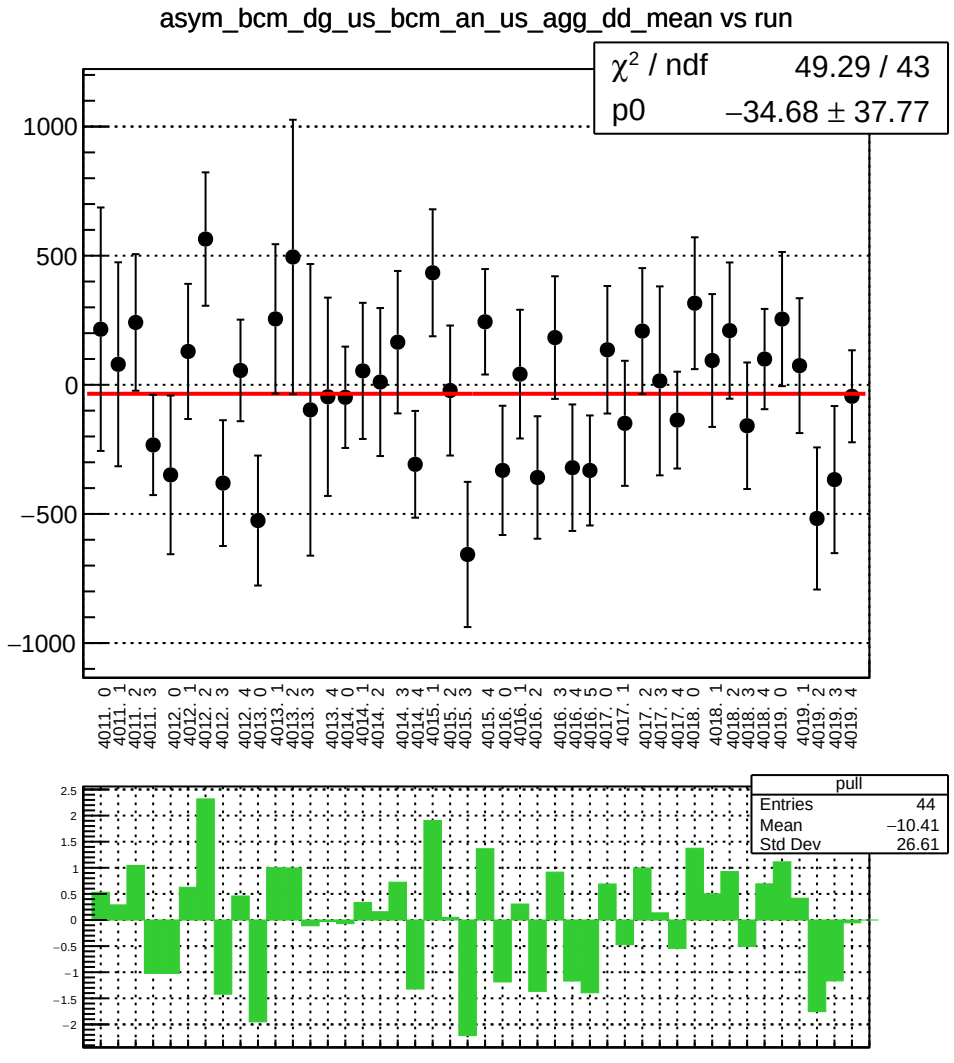
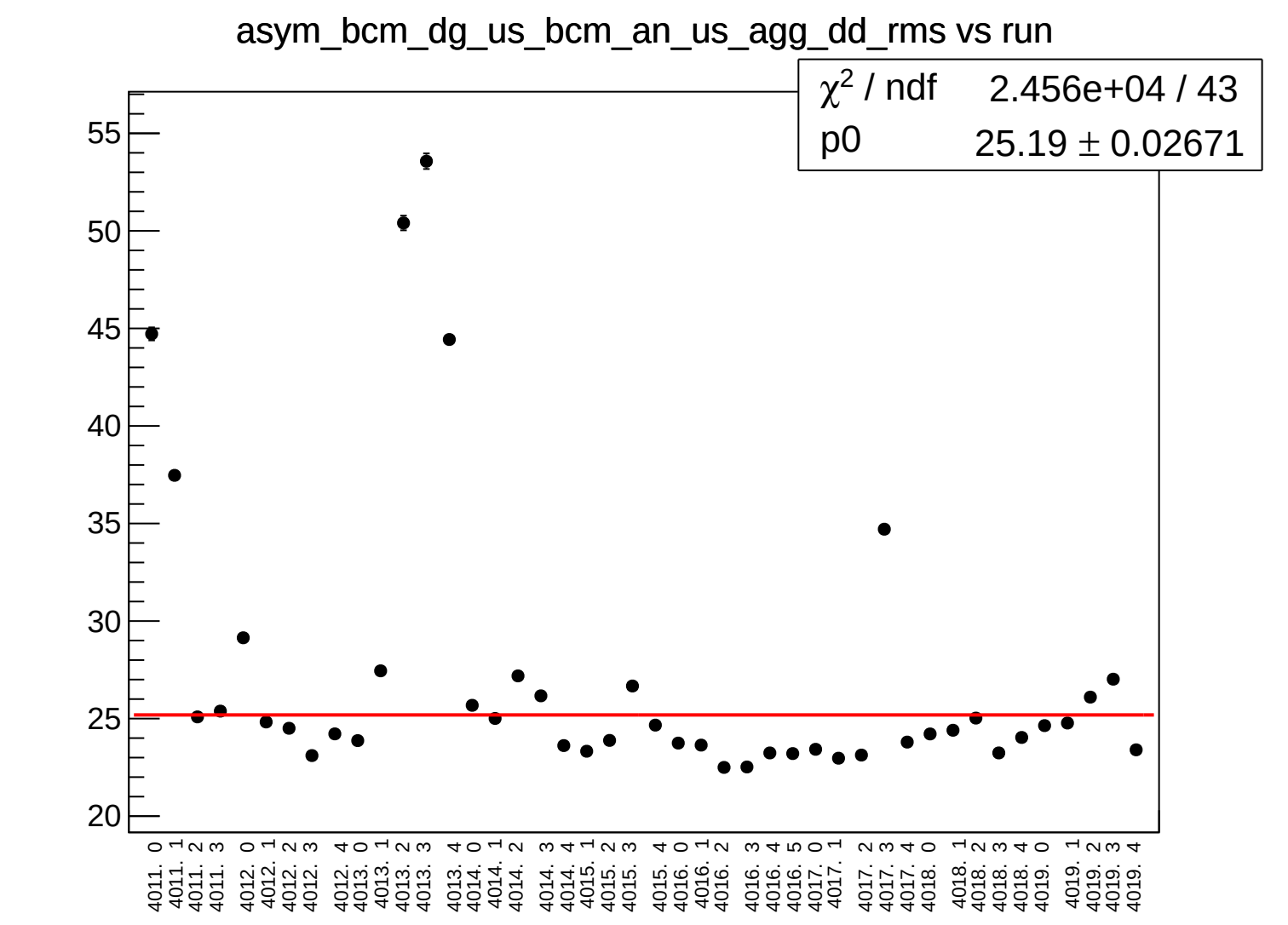
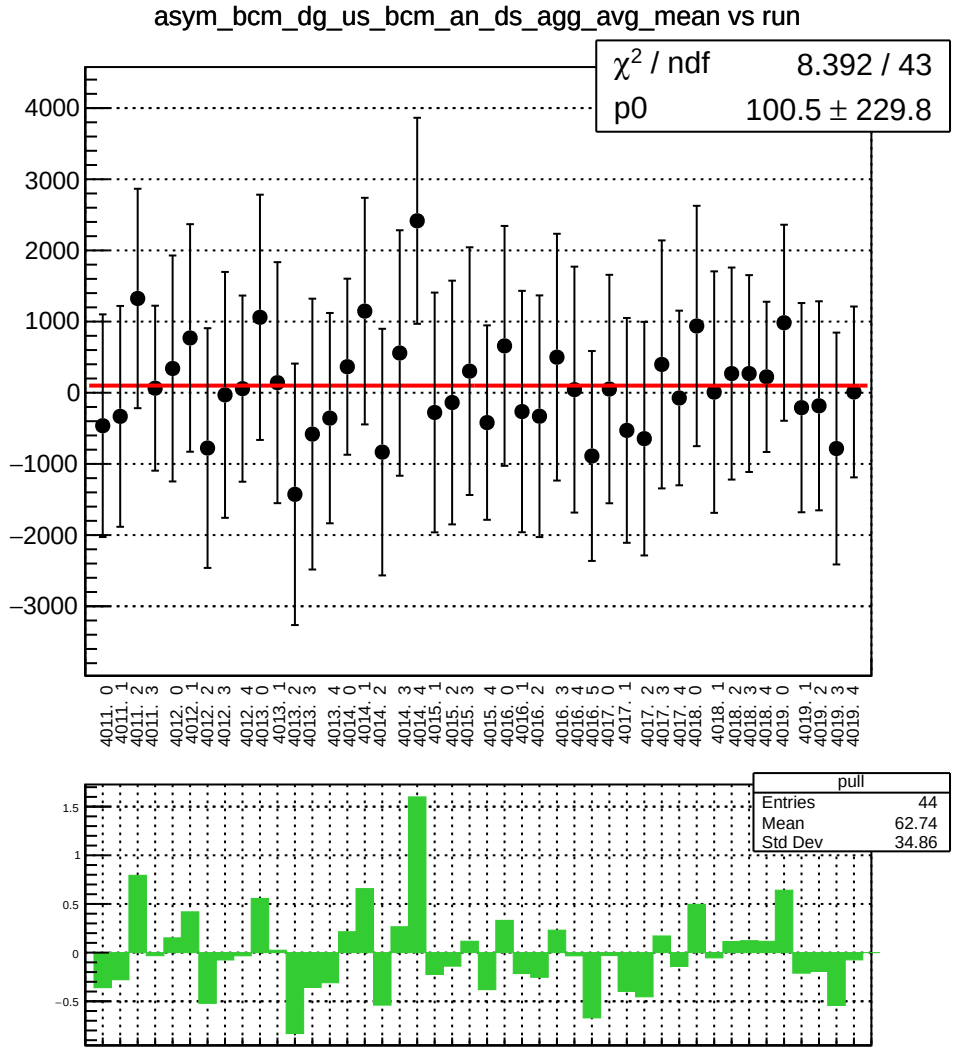
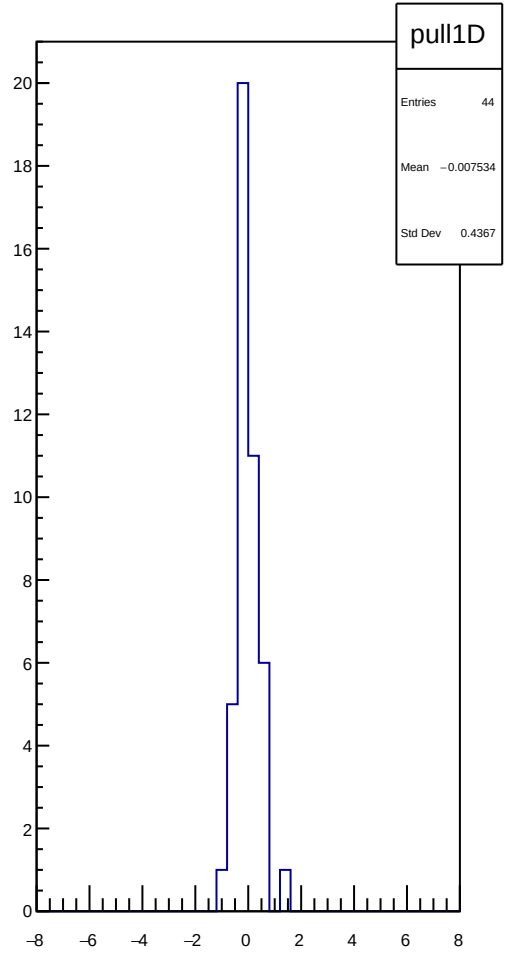
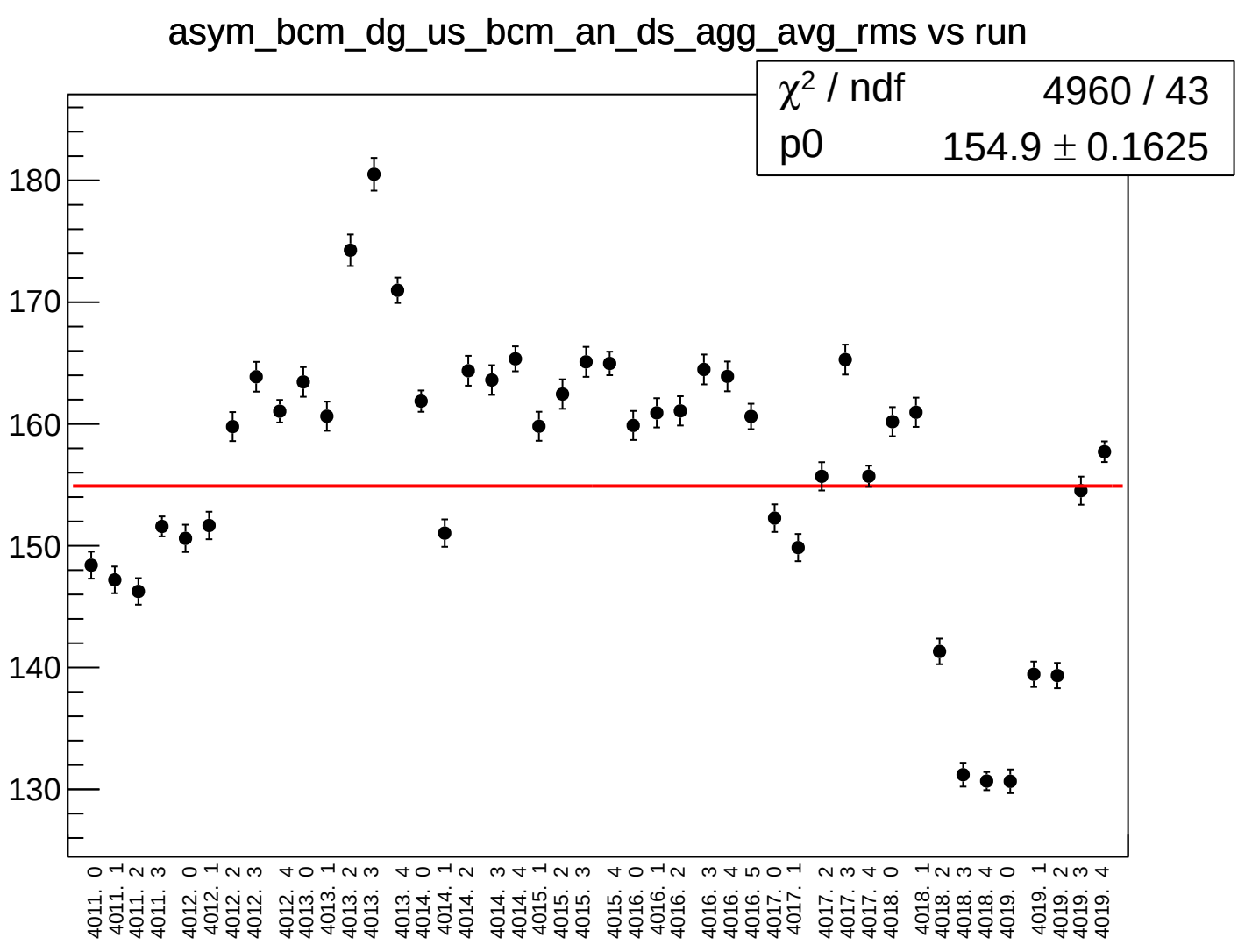
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

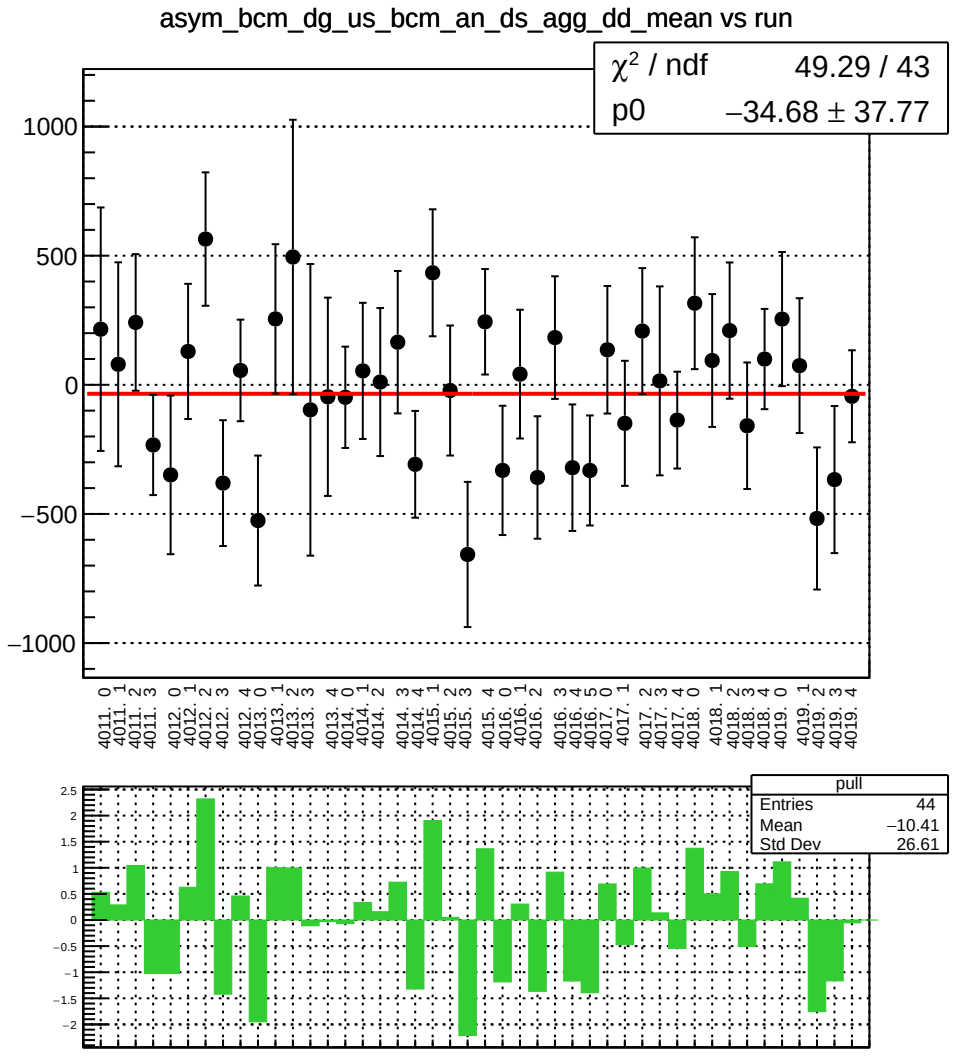

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 49.29 / 43
p0 −34.68 ± 37.77
1000
500
0
−500
−1000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −10.41
Std Dev 26.61
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean 0.02512
Std Dev 1.058
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

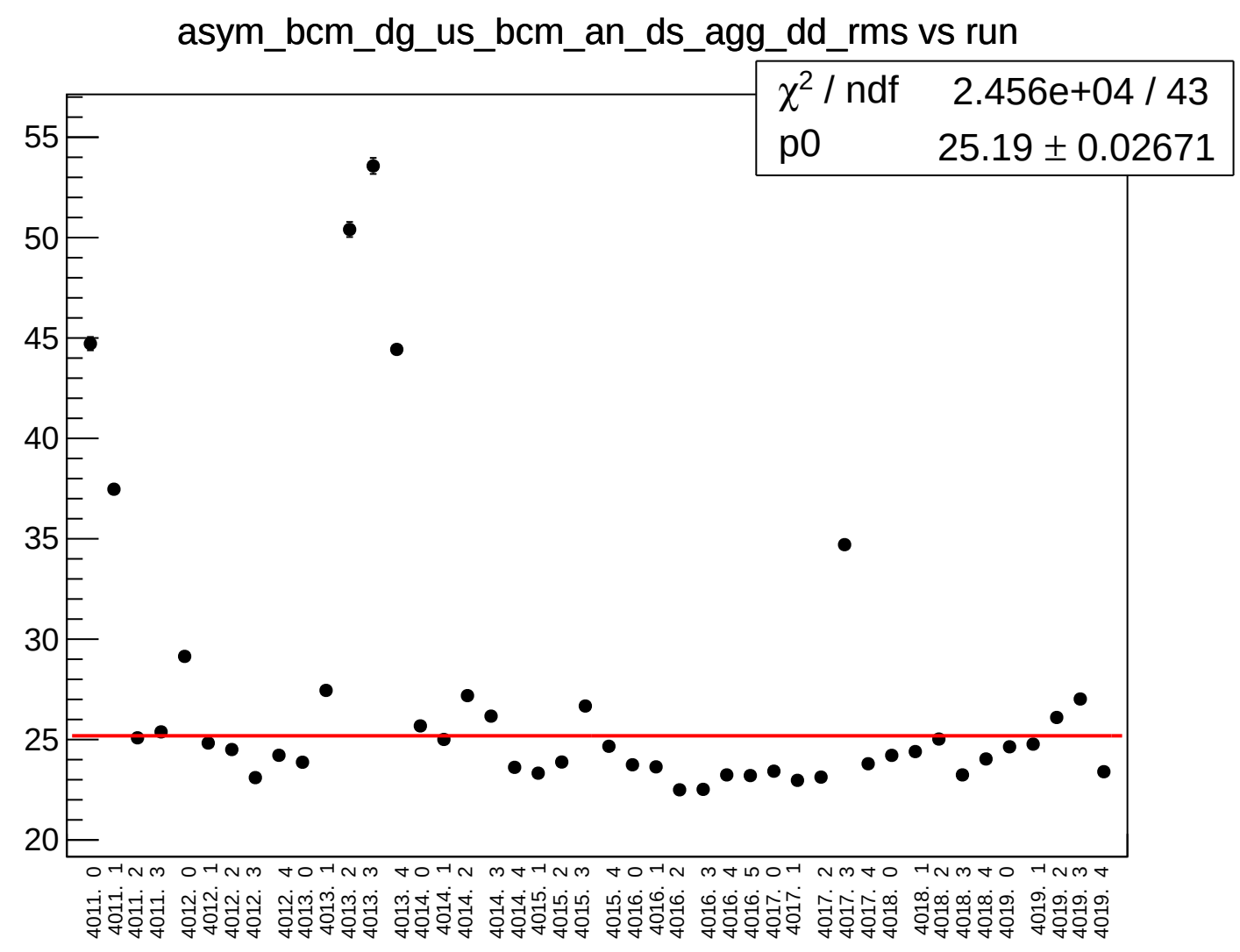

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2.456e+04 / 43
p0 25.19 ± 0.02671
55
50
45
40
35
30
25
20
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

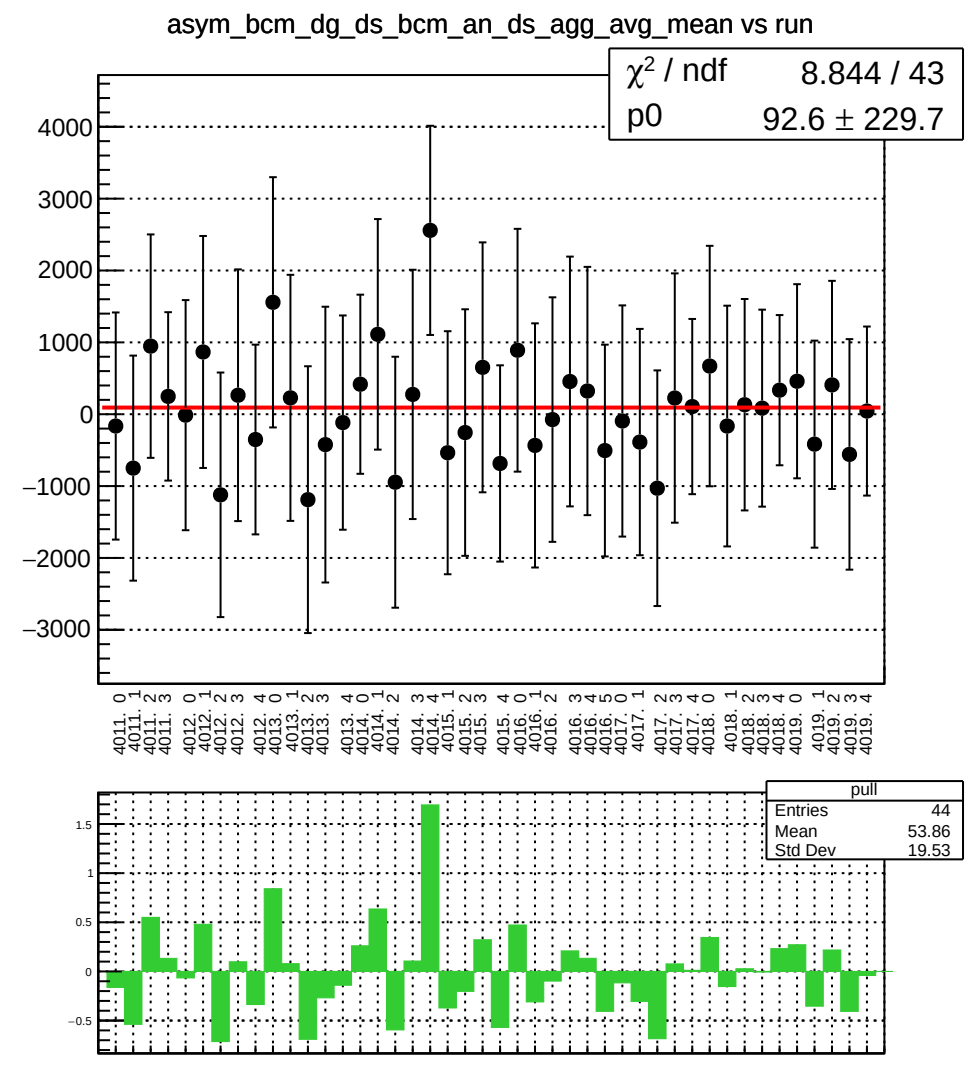

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.392 / 43
p0 100.5 ± 229.8
pull
Entries 44
Mean 62.74
Std Dev 34.86

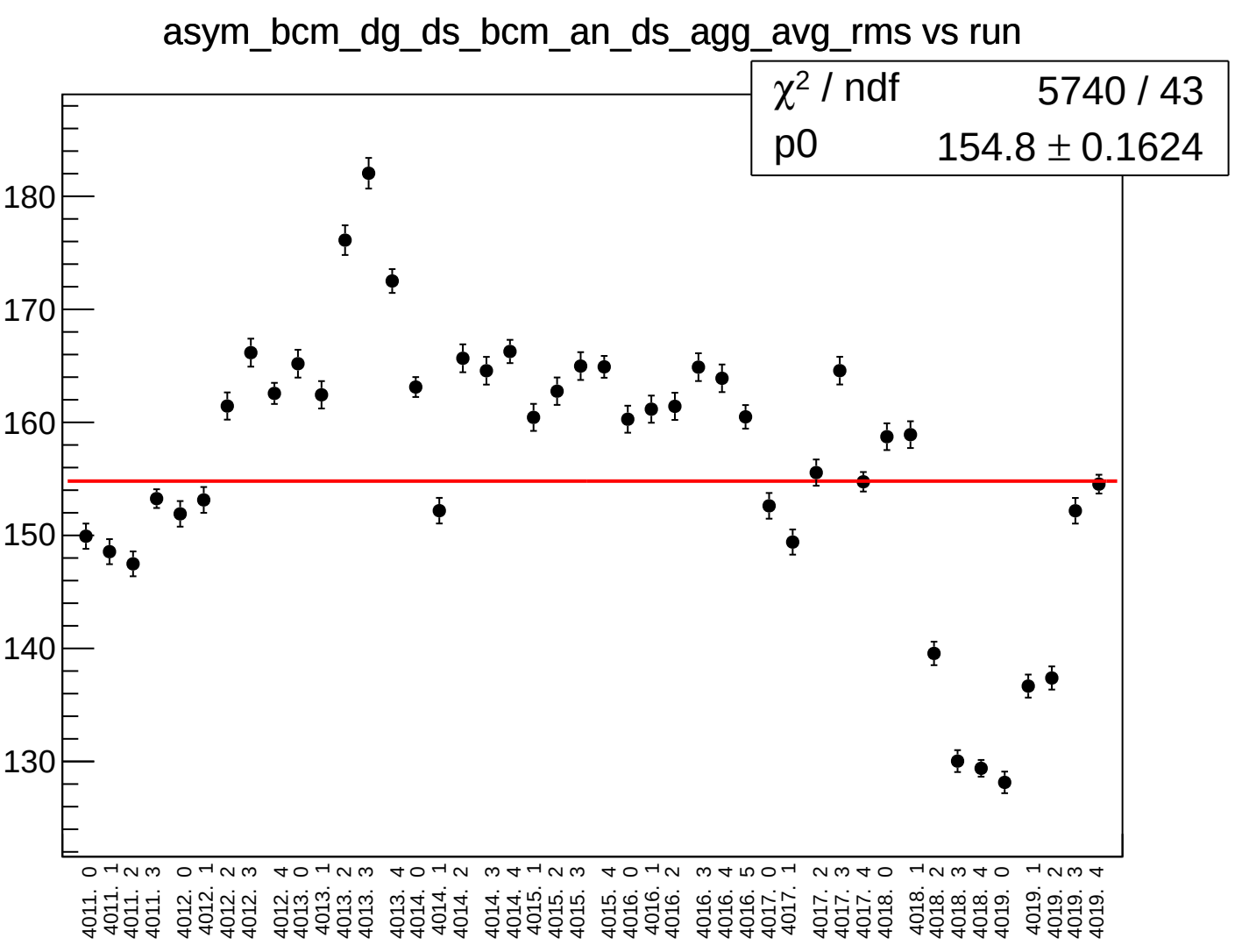

pull1D
Entries 44
Mean −0.007534
Std Dev 0.4367

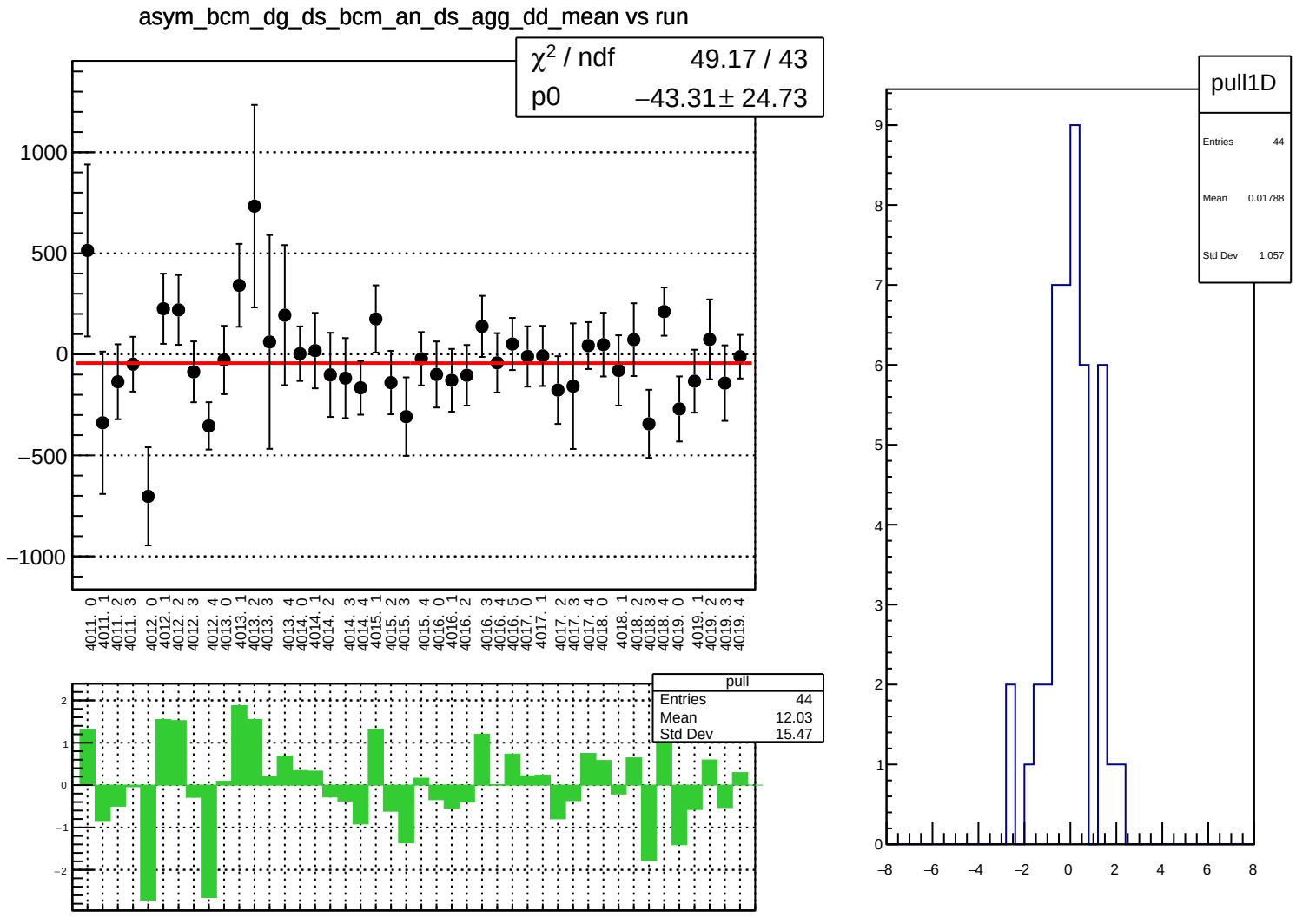

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4960 / 43
p0 154.9 ± 0.1625
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

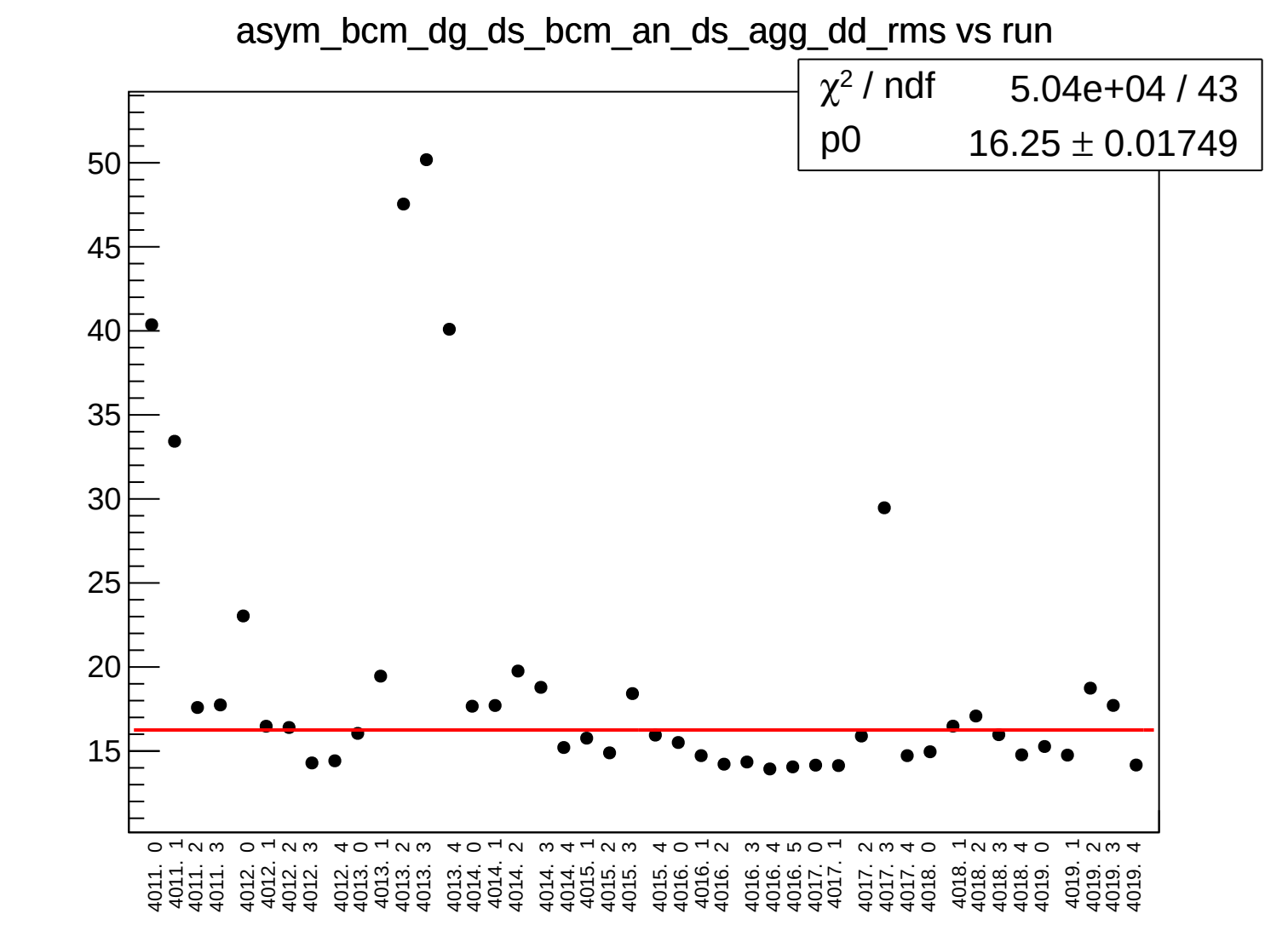

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 49.29 / 43
p0 −34.68 ± 37.77
1000
500
0
−500
−1000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −10.41
Std Dev 26.61
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean 0.02512
Std Dev 1.058
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

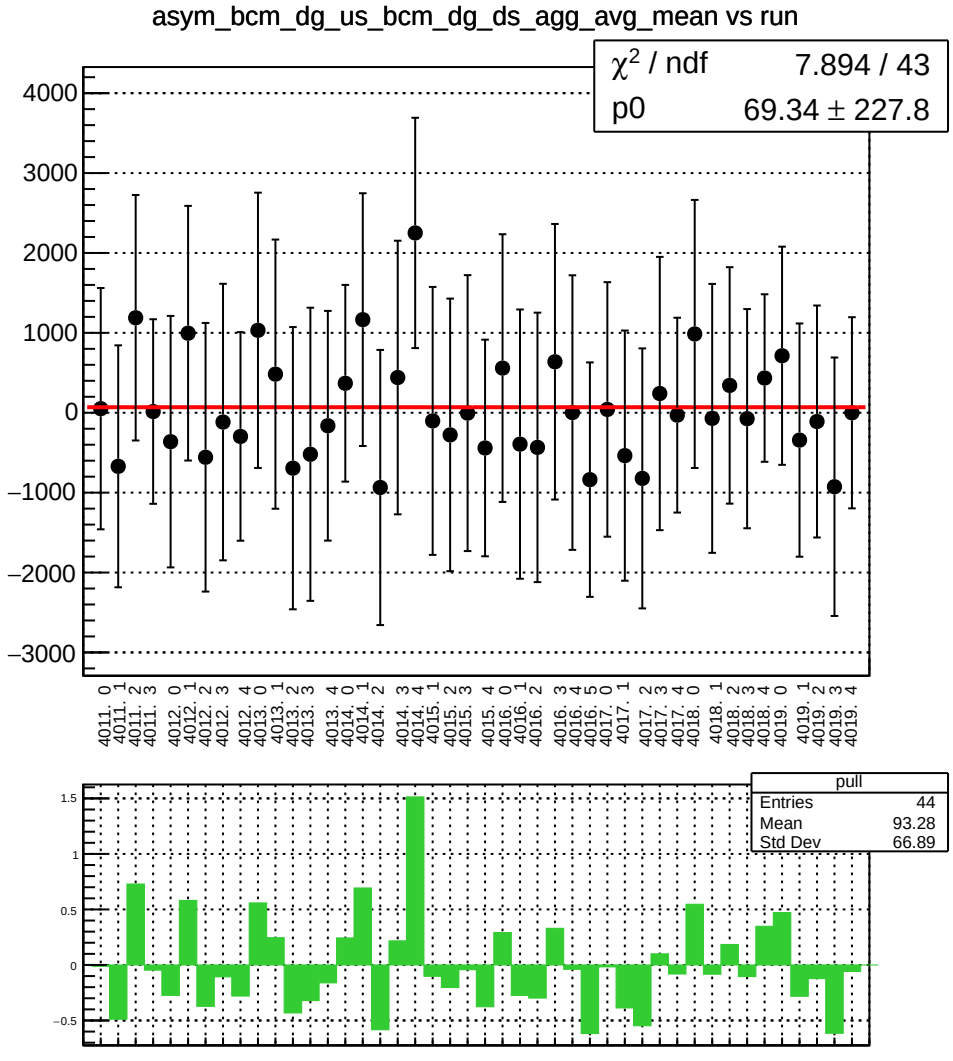

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.456e+04 / 43
p0 25.19 ± 0.02671
55
50
45
40
35
30
25
20
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

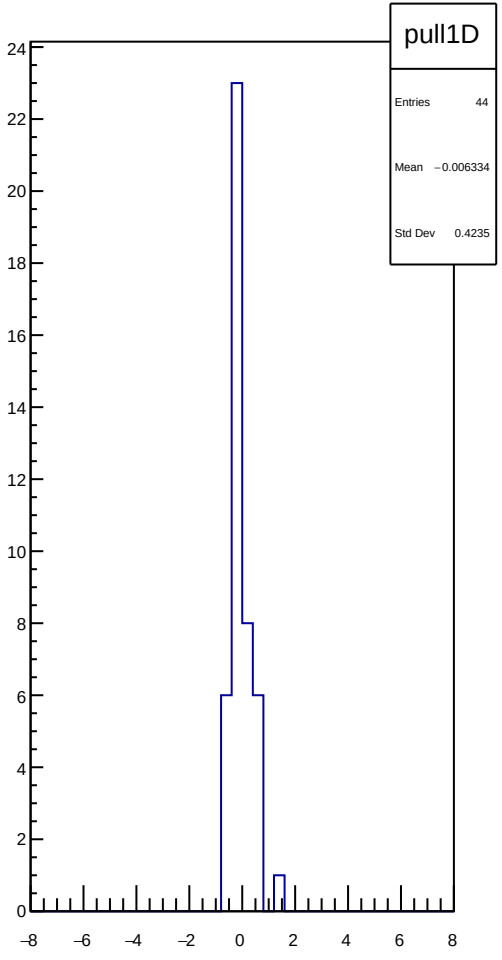

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.844 / 43
p0 92.6 ± 229.7
4000
3000
2000
1000
0
−1000
−2000
−3000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 53.86
Std Dev 19.53
1.5
1
0.5
0
−0.5
pull1D
Entries 44
Mean −0.007765
Std Dev 0.4483
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

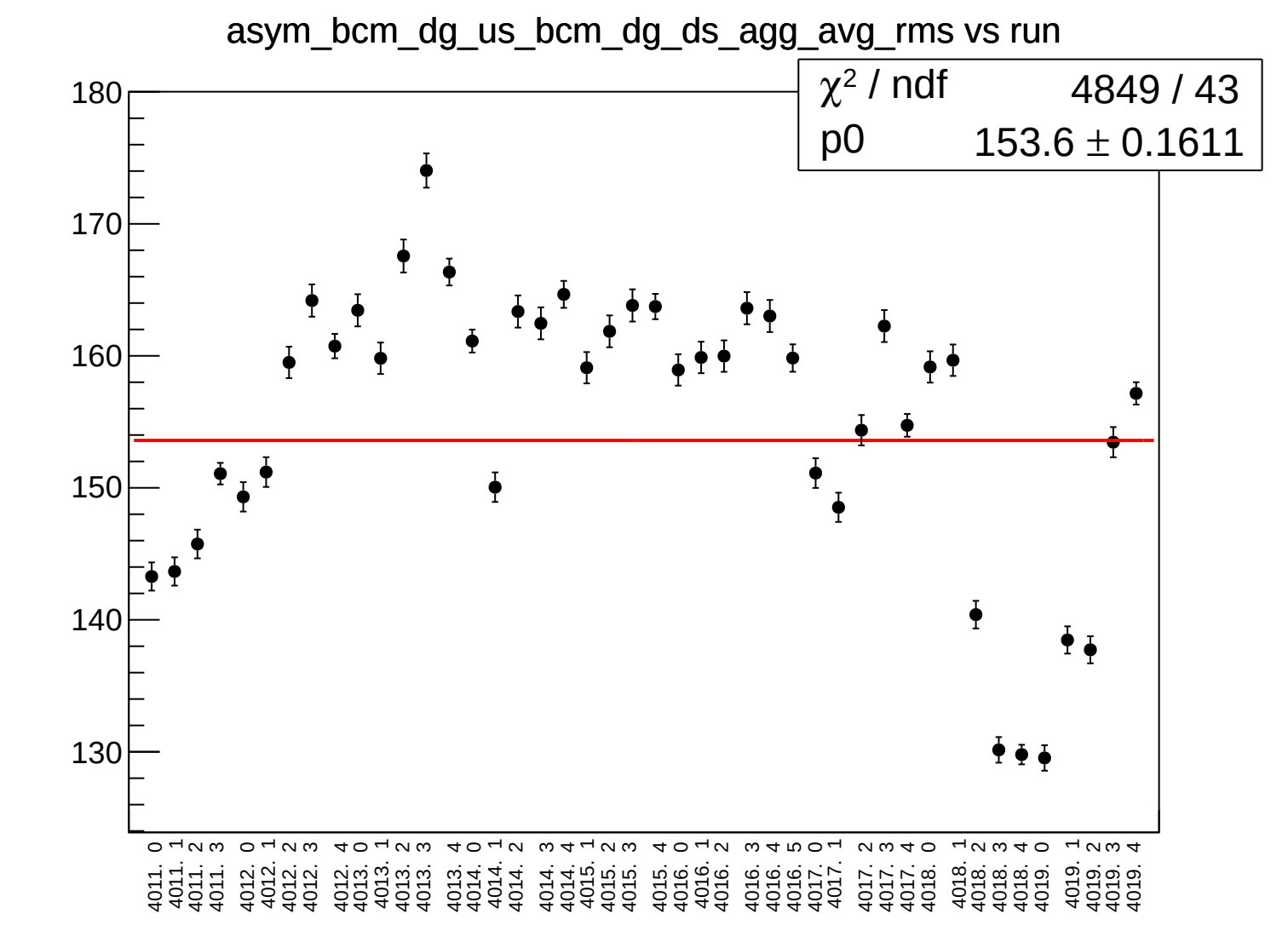

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5740 / 43
p0 154.8 ± 0.1624
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

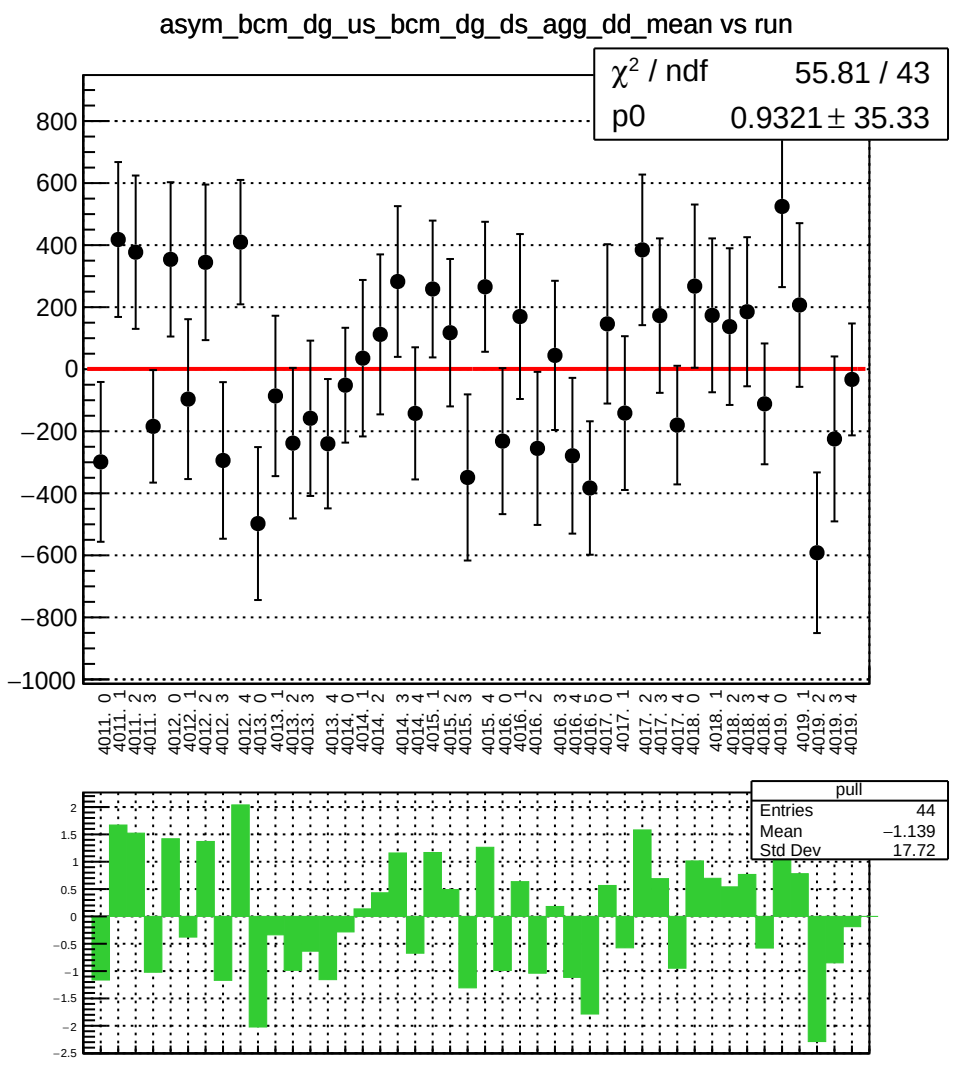

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 49.17 / 43
p0 −43.31 ± 24.73
1000
500
0
−500
−1000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 12.03
Std Dev 15.47
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.01788
Std Dev 1.057
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

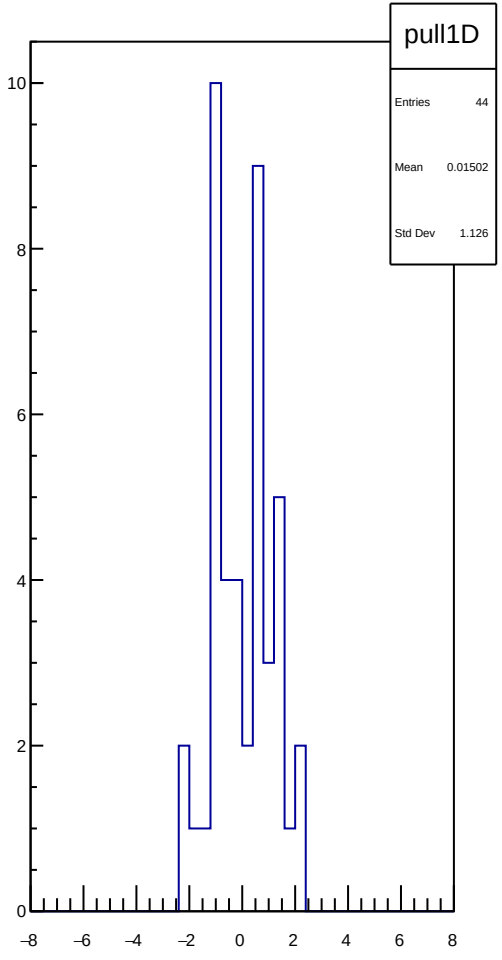

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5.04e+04 / 43
p0 16.25 ± 0.01749
50
45
40
35
30
25
20
15
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

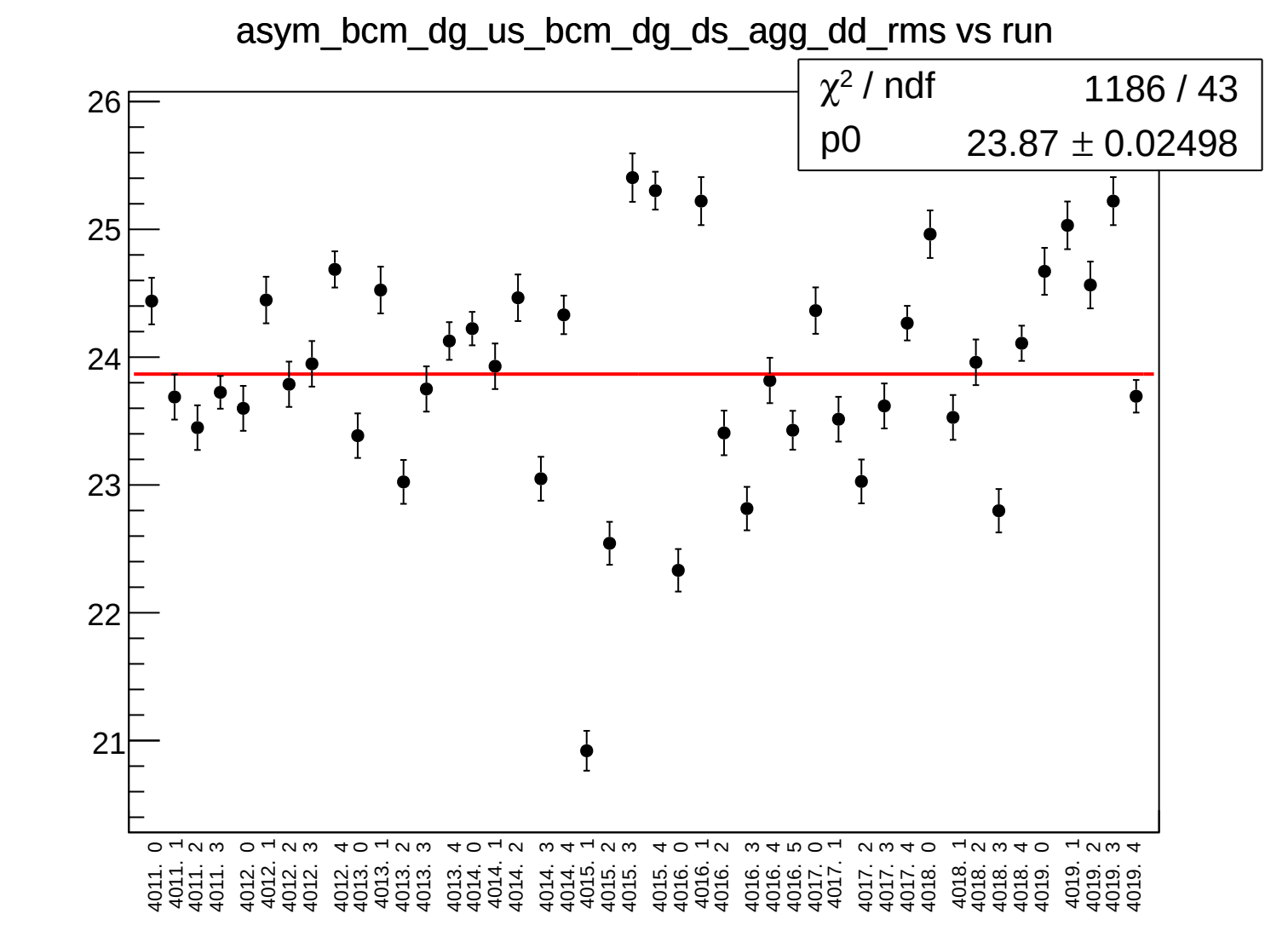

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 7.894 / 43
p0 69.34 ± 227.8
pull
Entries 44
Mean 93.28
Std Dev 66.89

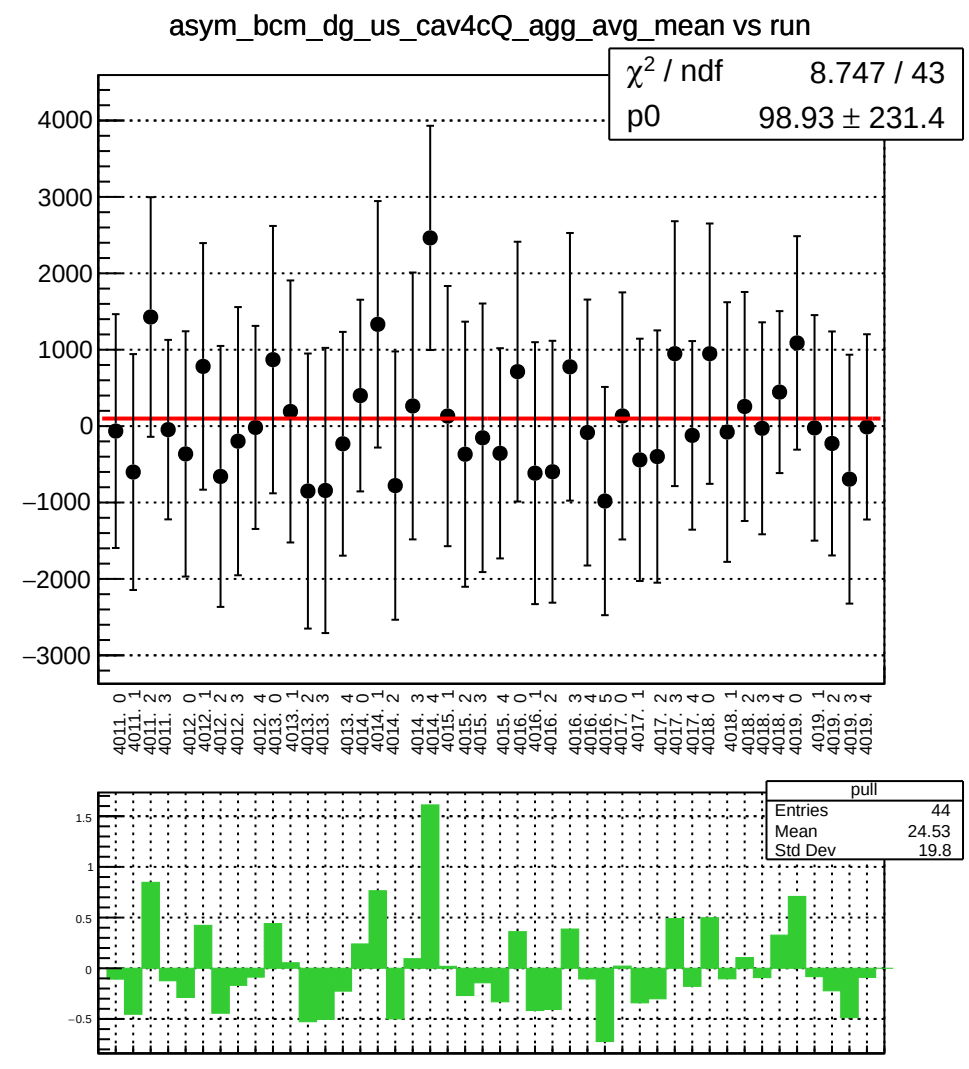

pull1D
Entries 44
Mean −0.006334
Std Dev 0.4235

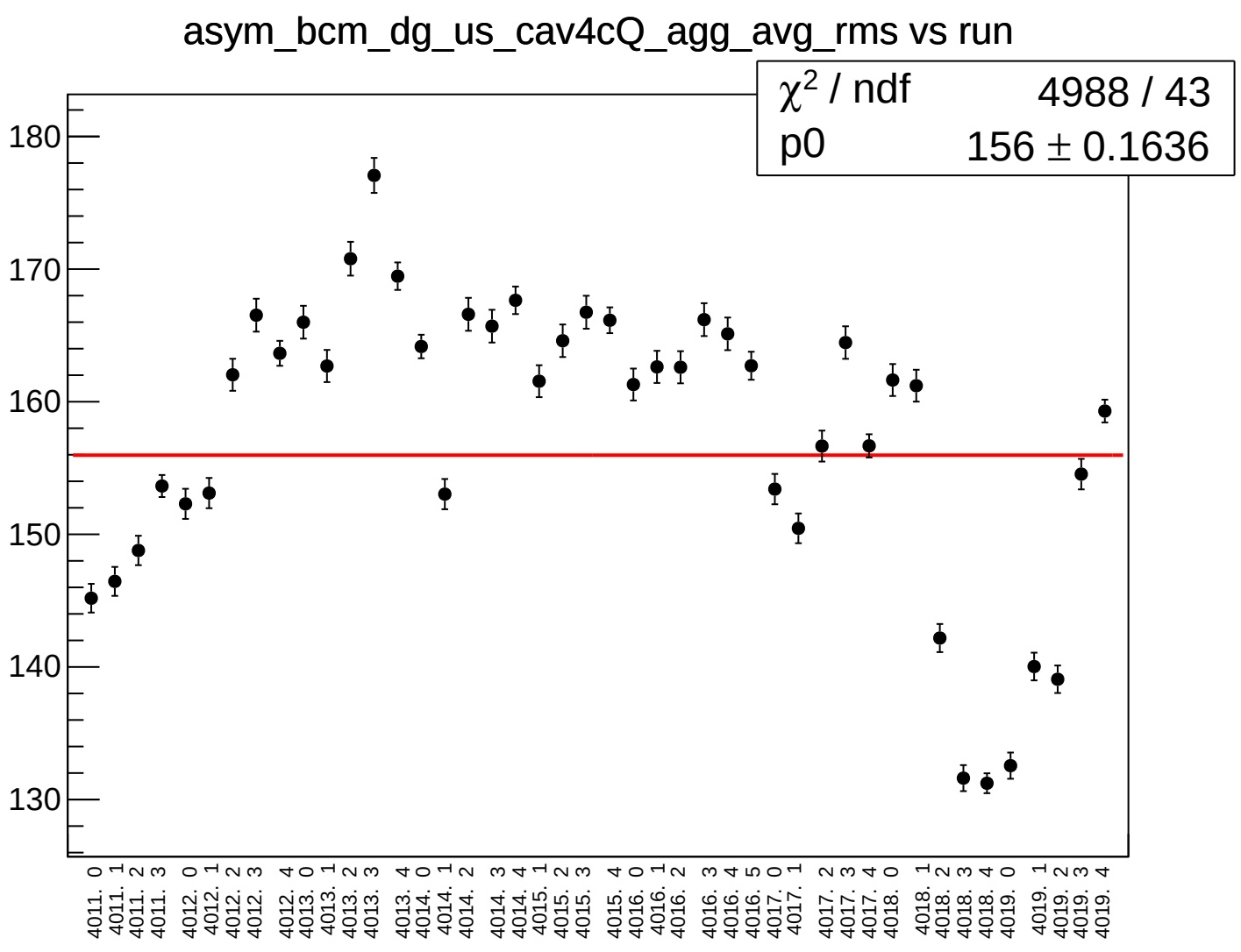

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4849 / 43
p0 153.6 ± 0.1611
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

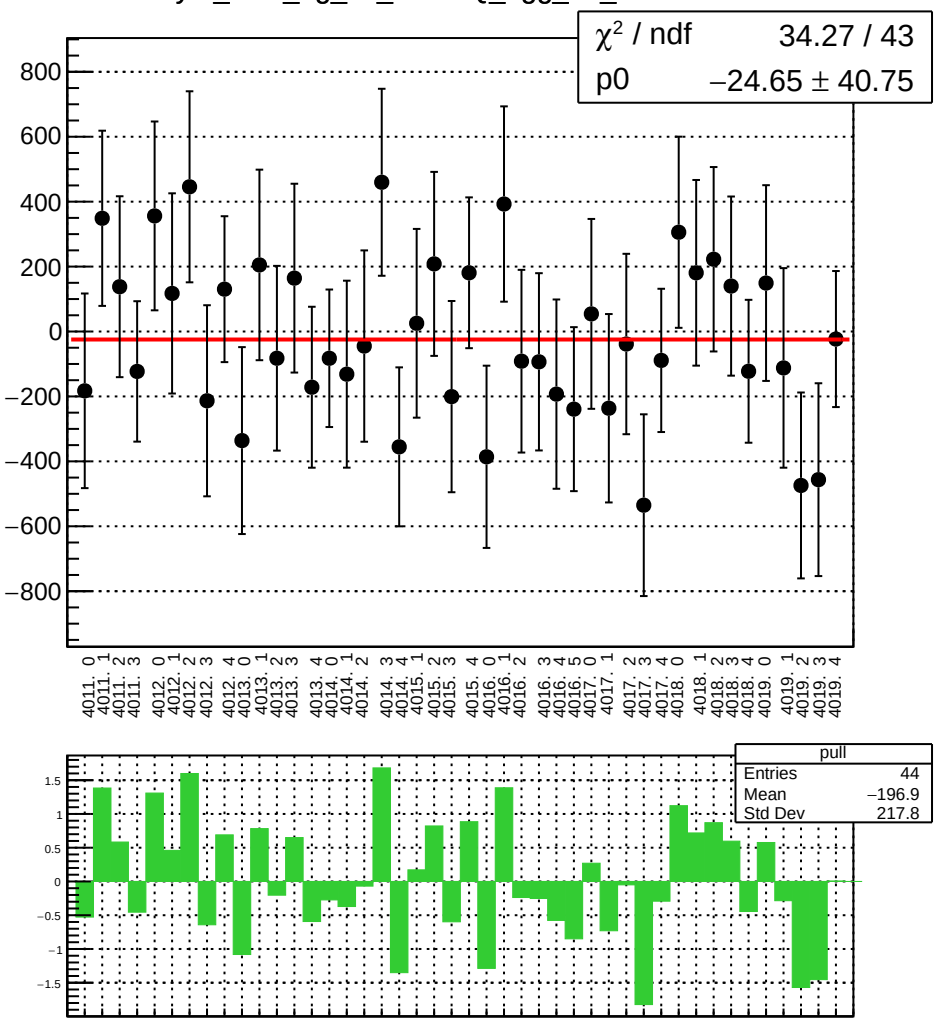

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 55.81 / 43
p0 0.9321 ± 35.33
pull
Entries 44
Mean −1.139
Std Dev 17.72

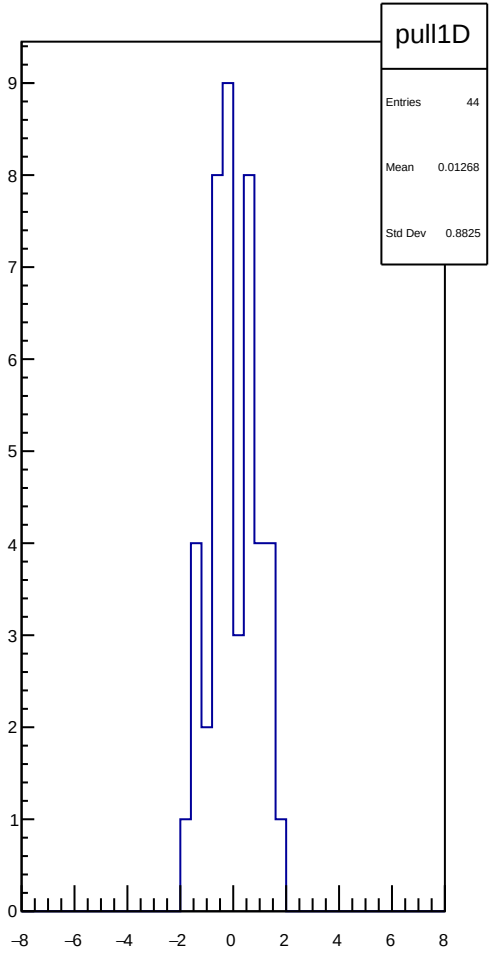

pull1D
Entries 44
Mean 0.01502
Std Dev 1.126

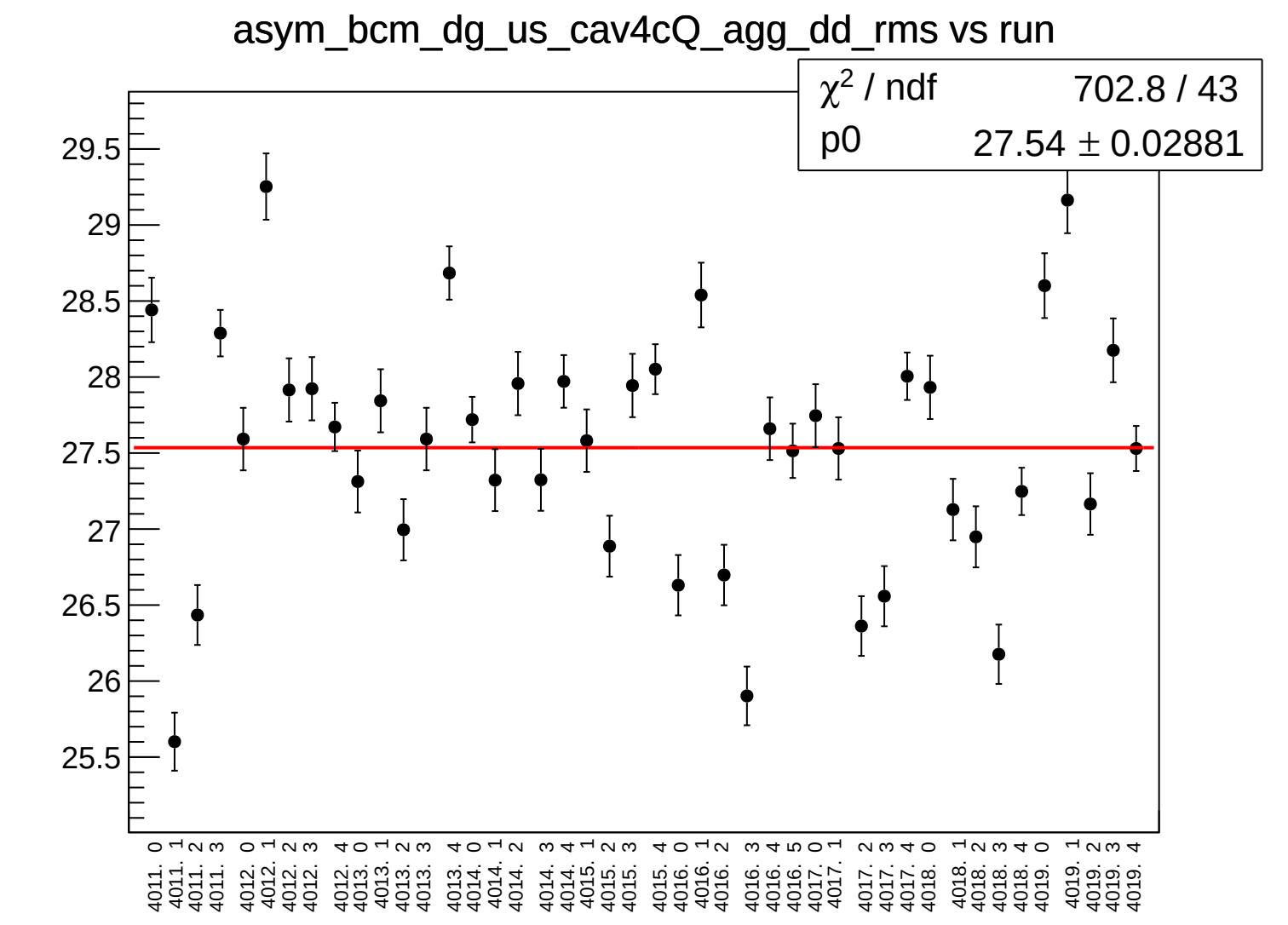

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1186 / 43
p0 23.87 ± 0.02498
26
25
24
23
22
21
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

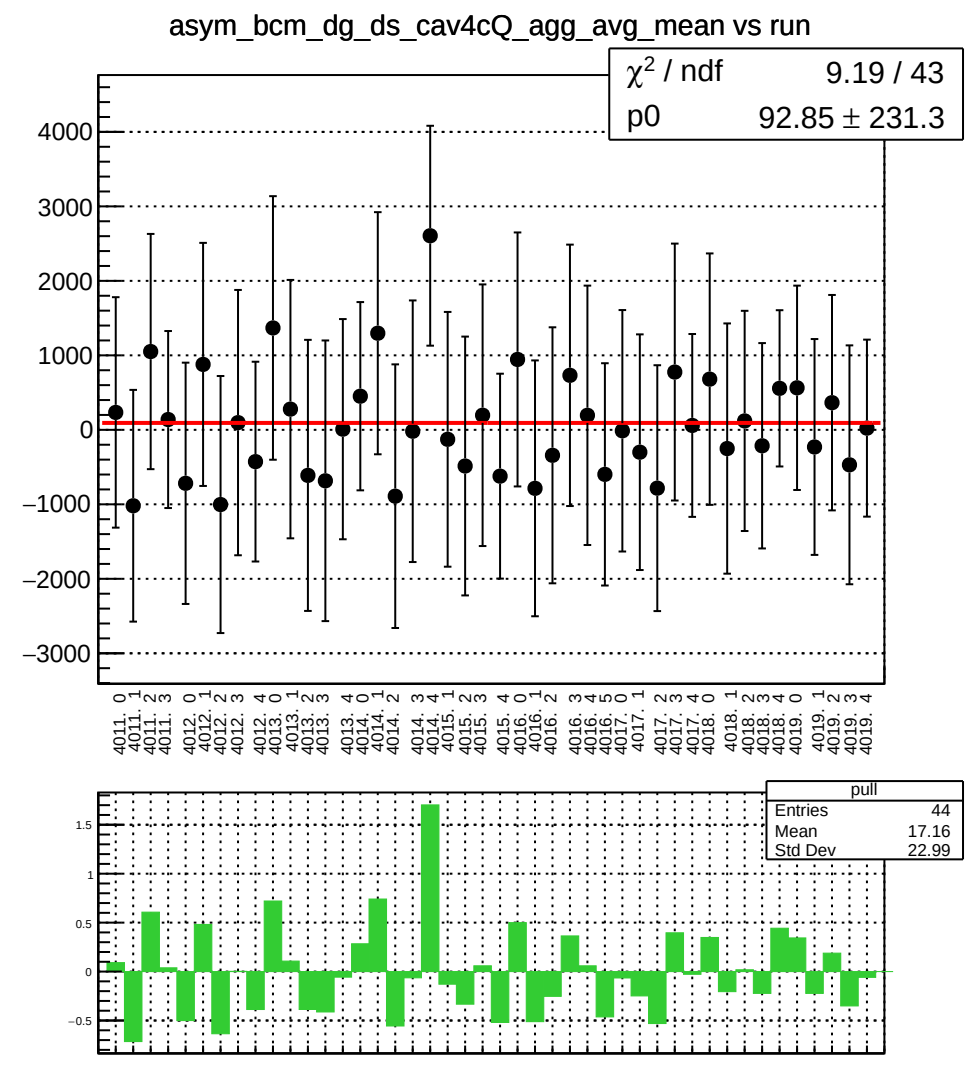

asym_bcm_dg_us_cav4cQ_agg_avg_mean vs run
χ² / ndf 8.747 / 43
p0 98.93 ± 231.4
4000
3000
2000
1000
0
−1000
−2000
−3000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 24.53
Std Dev 19.8
1.5
1
0.5
0
−0.5
pull1D
Entries 44
Mean −0.007402
Std Dev 0.4458
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

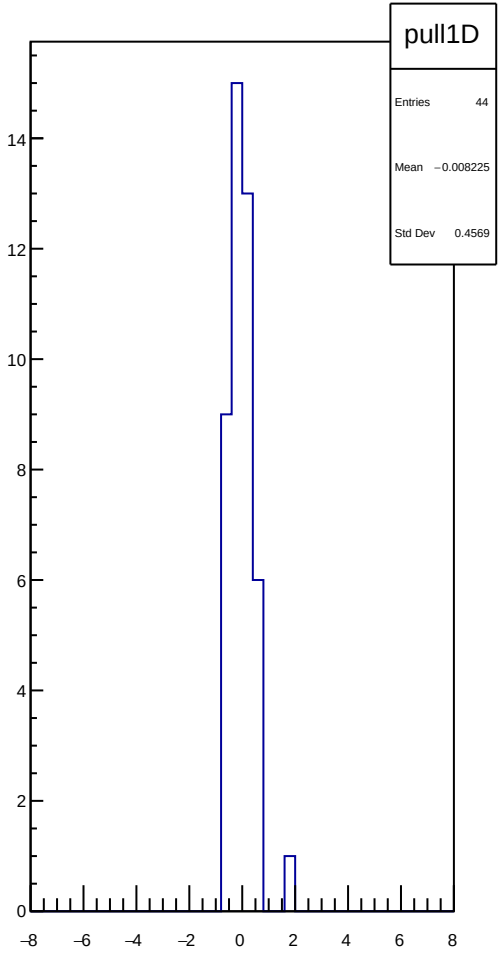

asym_bcm_dg_us_cav4cQ_agg_avg_rms vs run
χ² / ndf 4988 / 43
p0 156 ± 0.1636
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

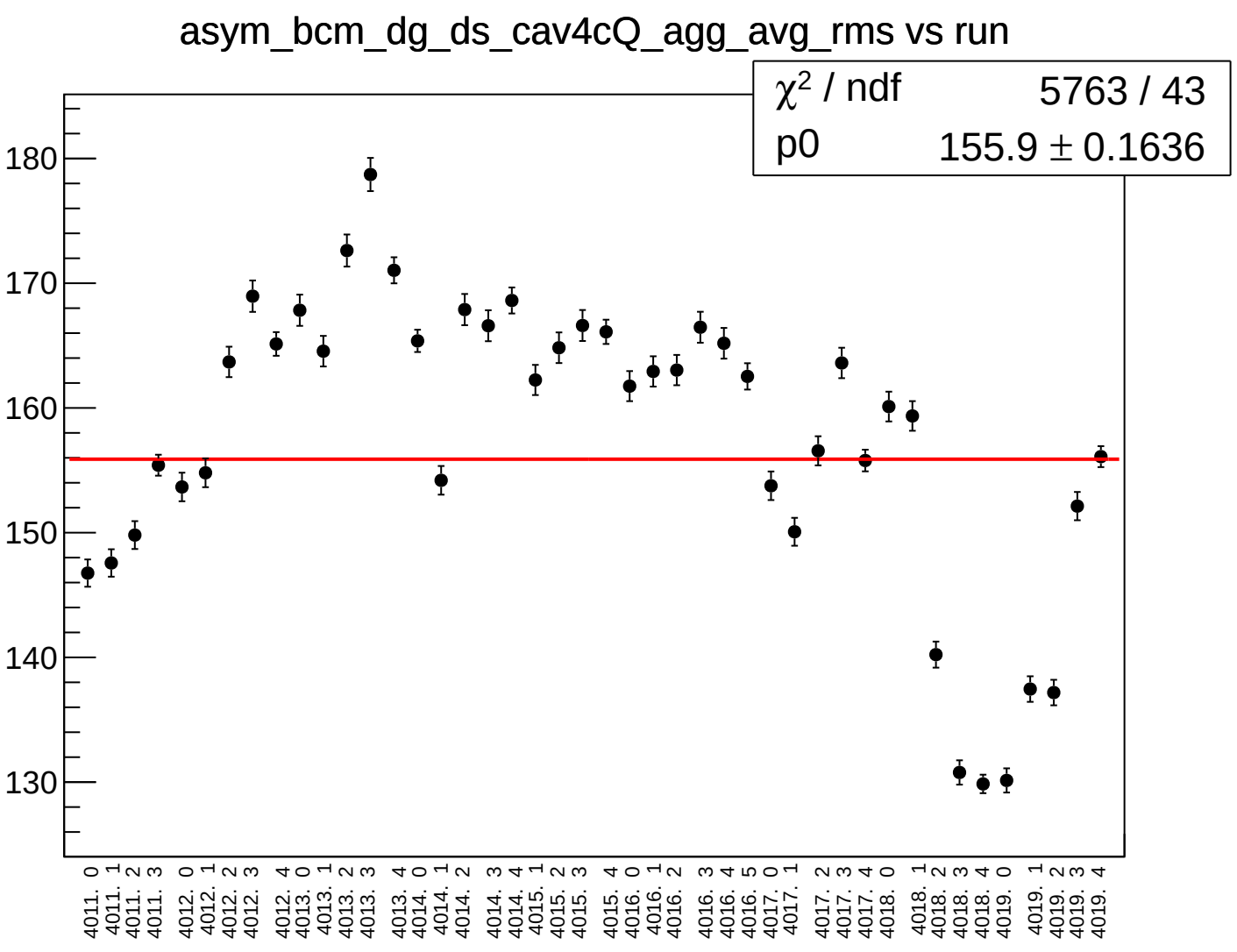

asym_bcm_dg_us_cav4cQ_agg_dd_mean vs run
χ² / ndf 34.27 / 43
p0 −24.65 ± 40.75
pull
Entries 44
Mean −196.9
Std Dev 217.8

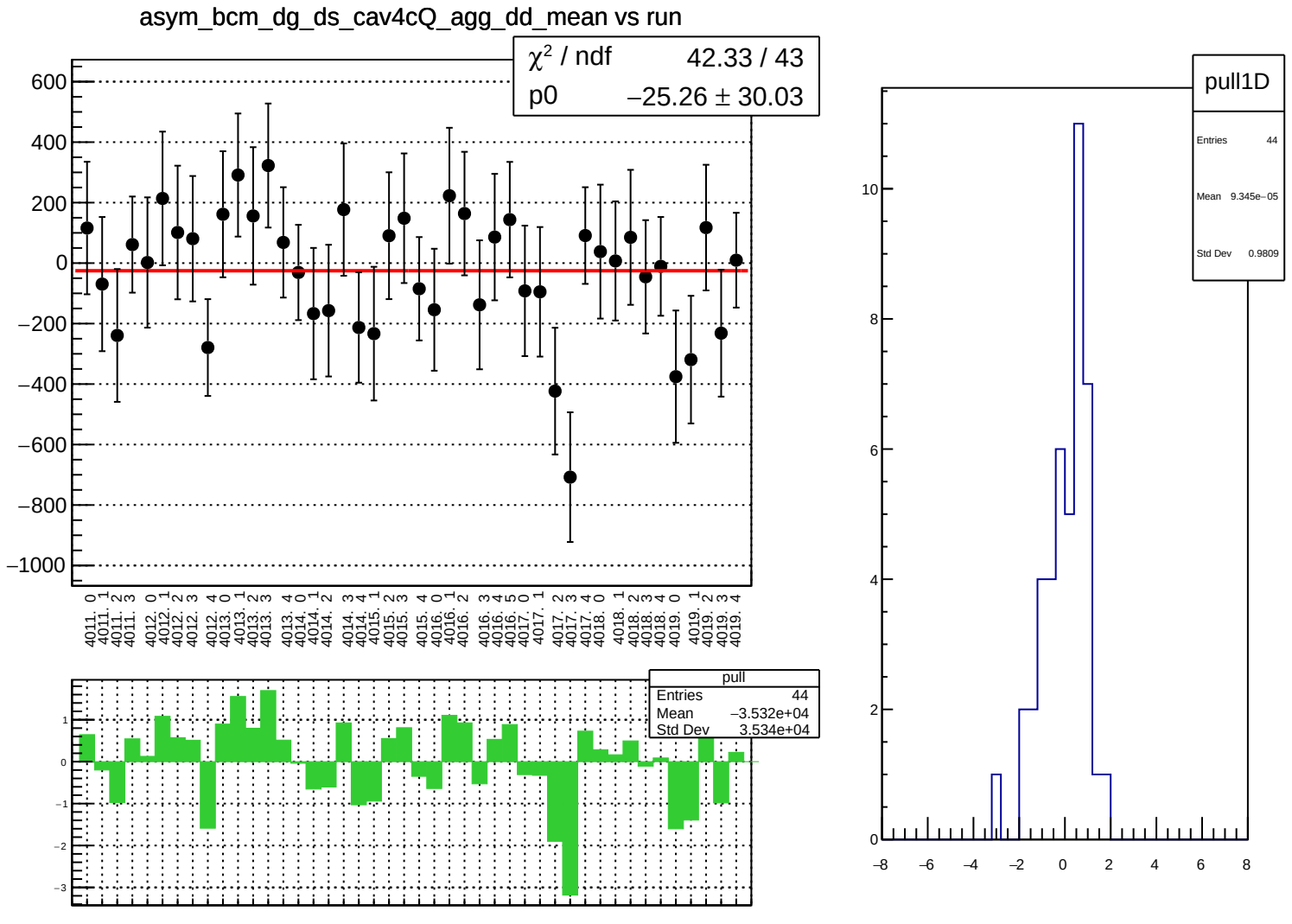

pull1D
Entries 44
Mean 0.01268
Std Dev 0.8825

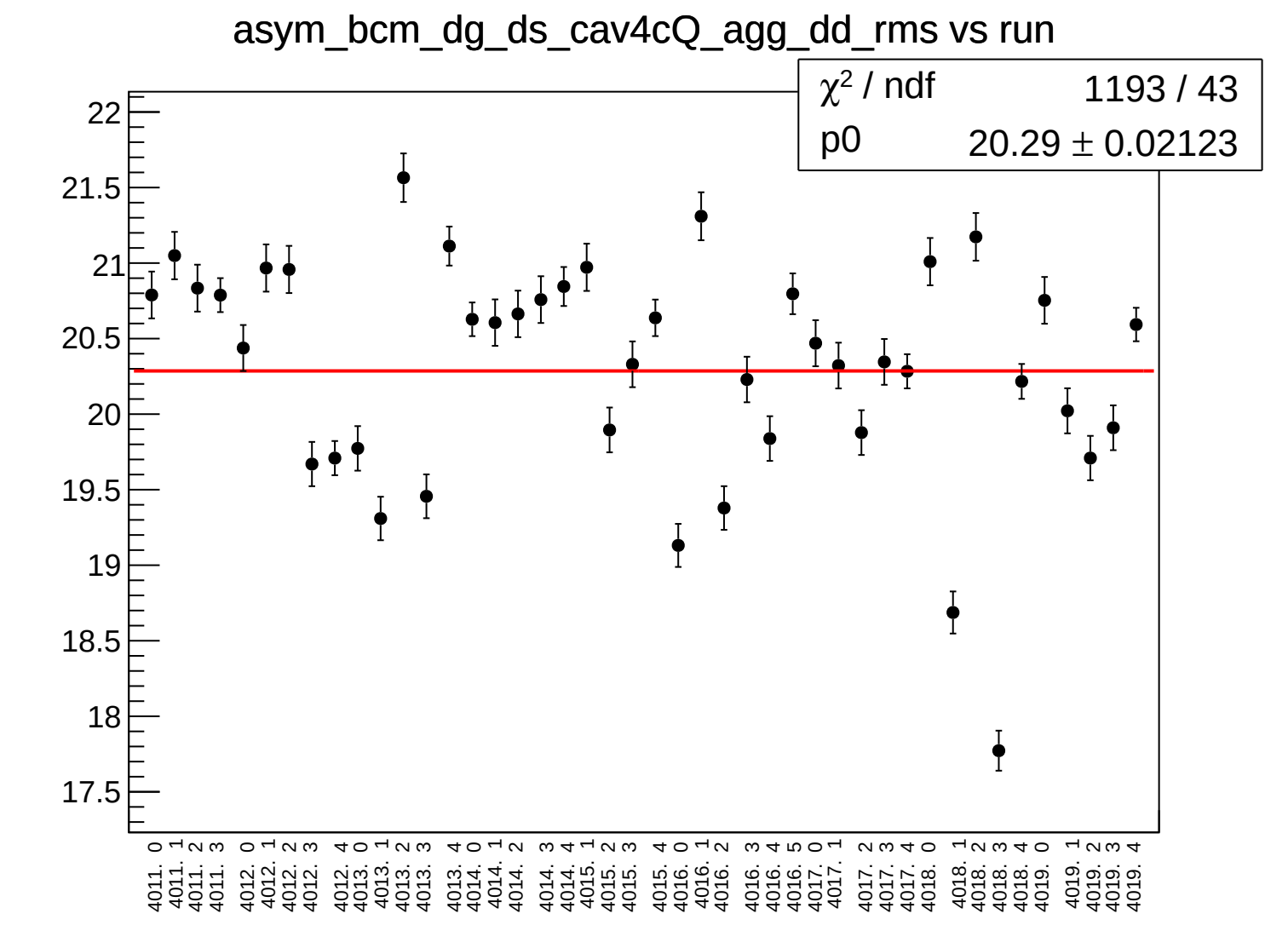

asym_bcm_dg_us_cav4cQ_agg_dd_rms vs run
χ² / ndf 702.8 / 43
p0 27.54 ± 0.02881
29.5
29
28.5
28
27.5
27
26.5
26
25.5
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

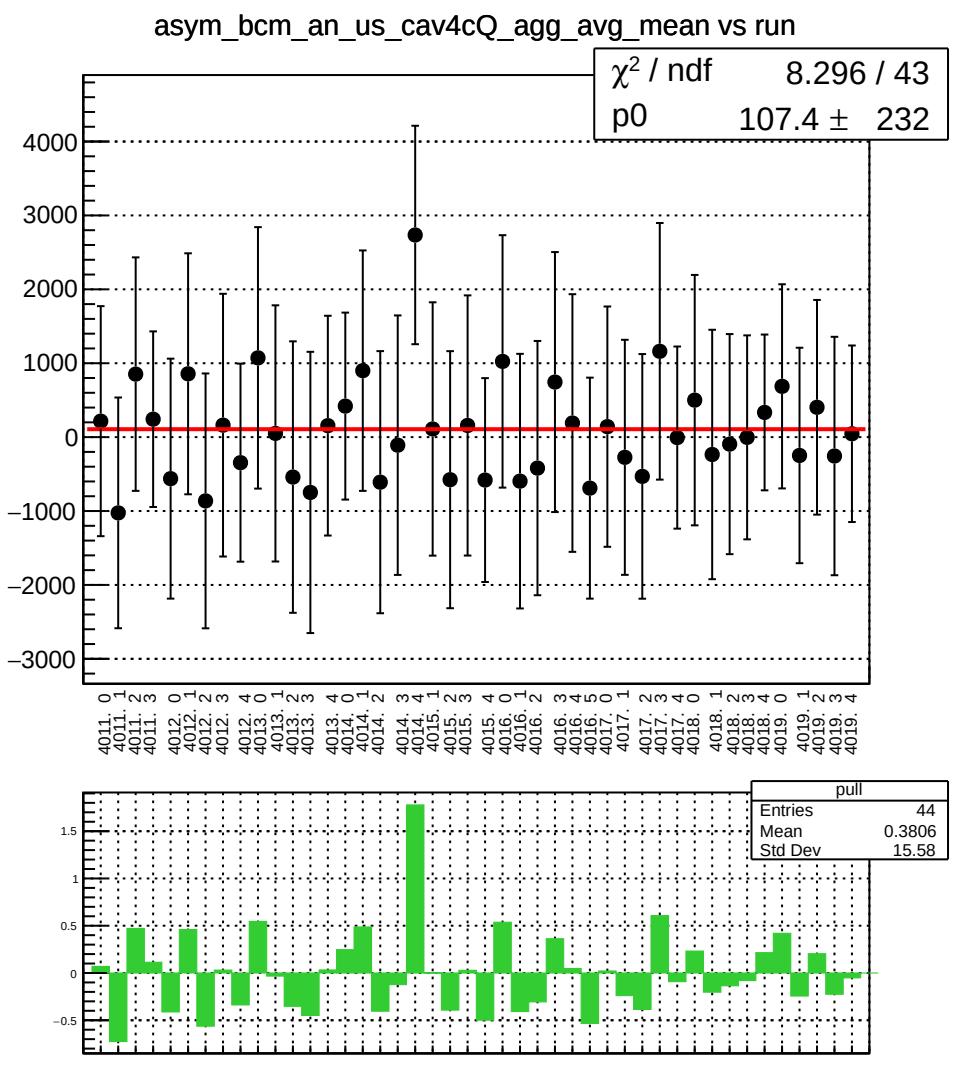

asym_bcm_dg_ds_cav4cQ_agg_avg_mean vs run
χ² / ndf 9.19 / 43
p0 92.85 ± 231.3
4000
3000
2000
1000
0
−1000
−2000
−3000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 17.16
Std Dev 22.99
1.5
1
0.5
0
−0.5

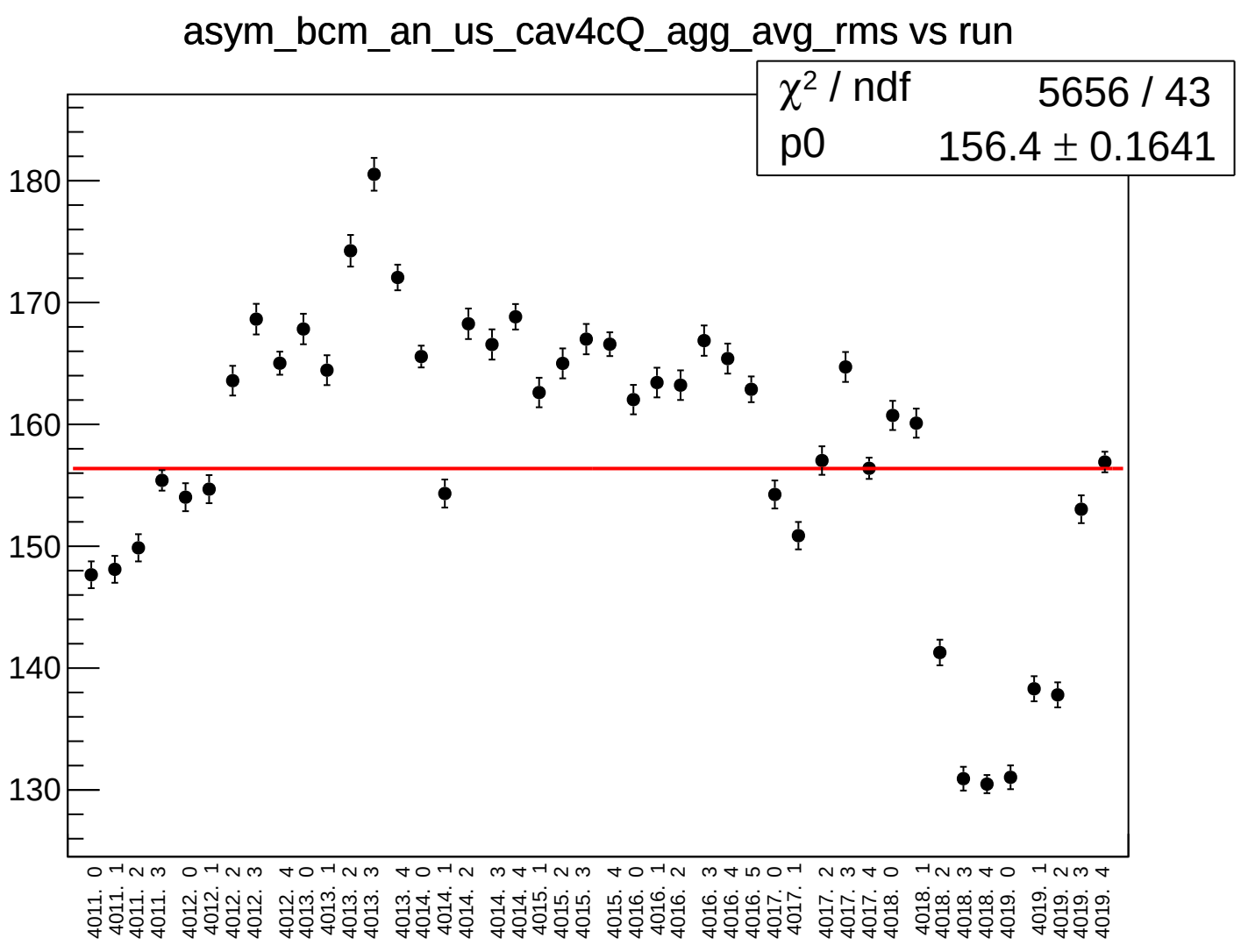

pull1D
Entries 44
Mean −0.008225
Std Dev 0.4569
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

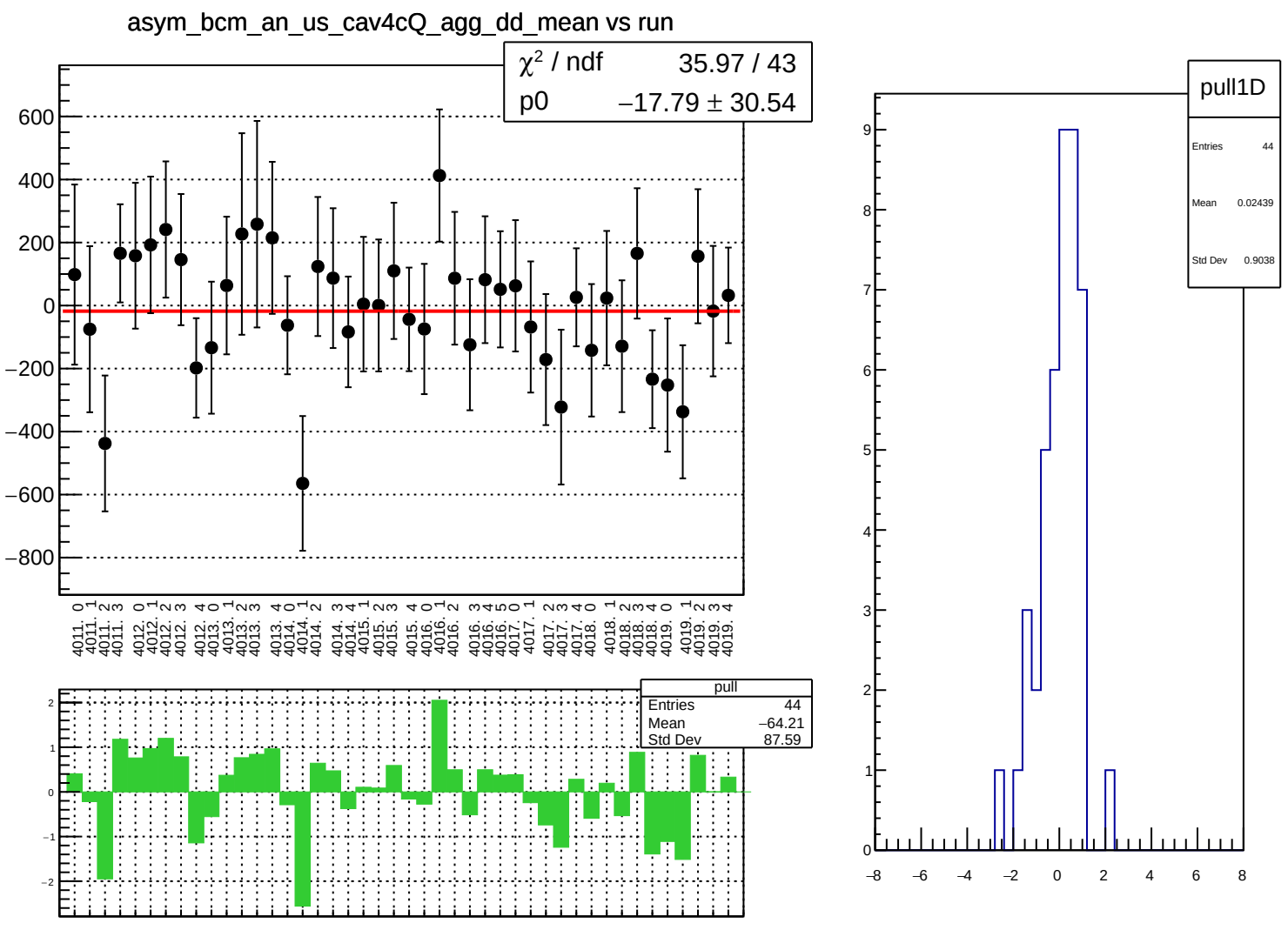

asym_bcm_dg_ds_cav4cQ_agg_avg_rms vs run
χ² / ndf 5763 / 43
p0 155.9 ± 0.1636
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

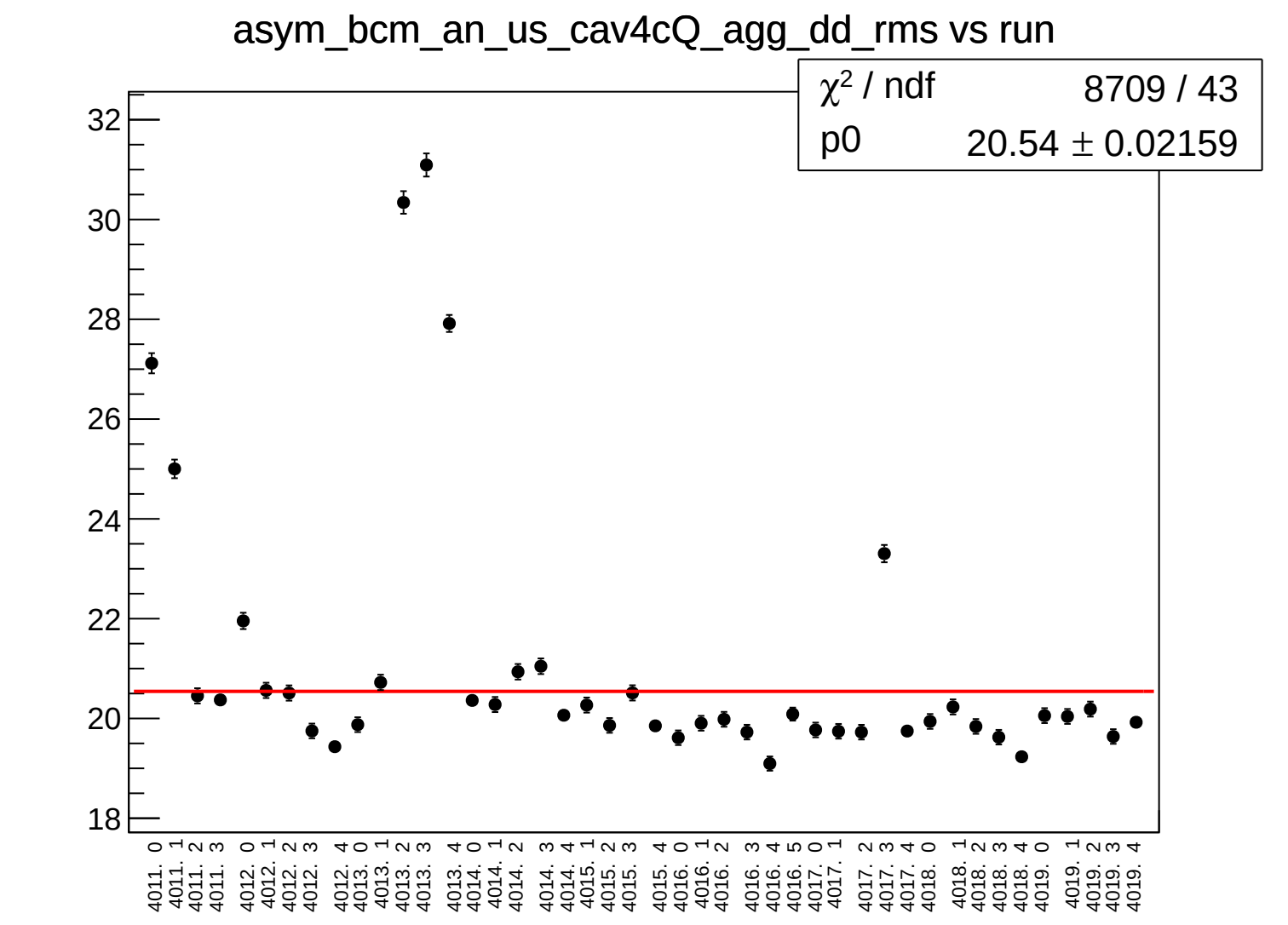

asym_bcm_dg_ds_cav4cQ_agg_dd_mean vs run
χ² / ndf 42.33 / 43
p0 −25.26 ± 30.03
600
400
200
0
−200
−400
−600
−800
−1000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −3.532e+04
Std Dev 3.534e+04
1
0
−1
−2
−3
pull1D
Entries 44
Mean 9.345e−05
Std Dev 0.9809
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

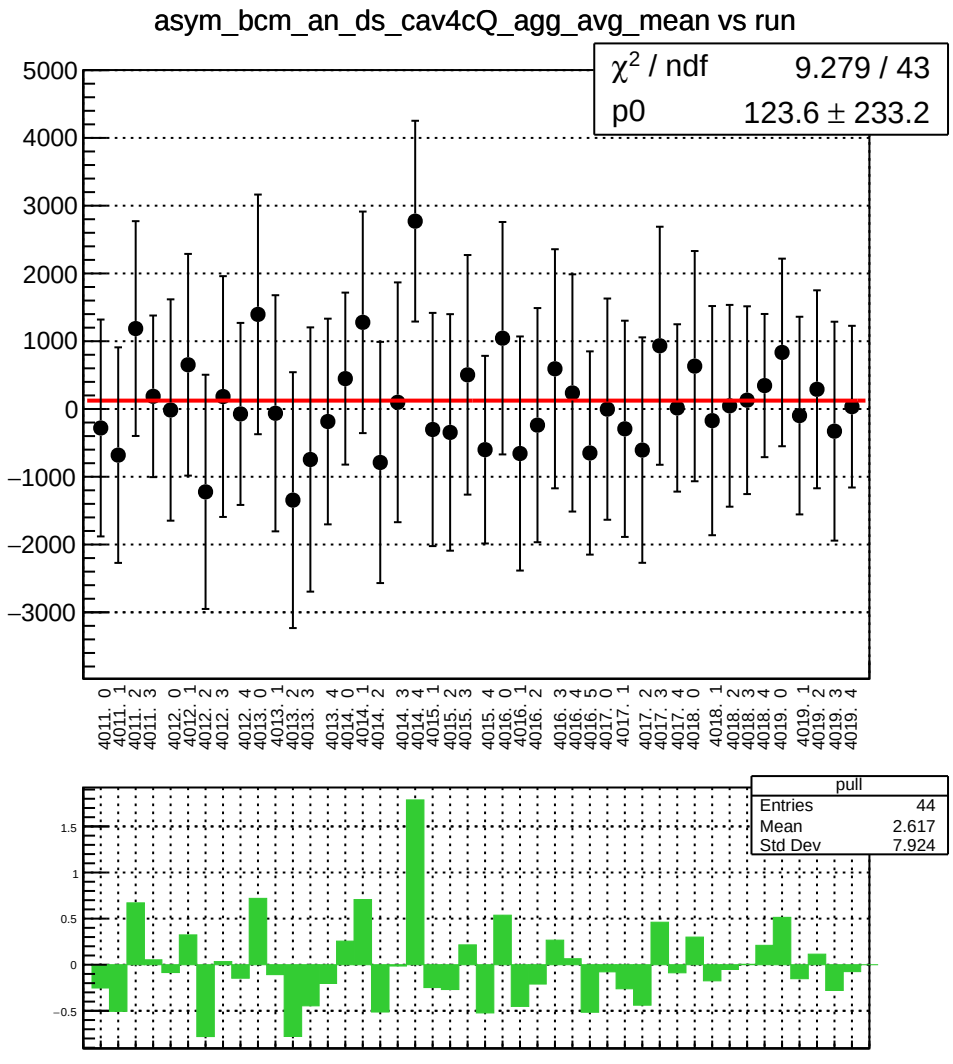

asym_bcm_dg_ds_cav4cQ_agg_dd_rms vs run
χ² / ndf 1193 / 43
p0 20.29 ± 0.02123
22
21.5
21
20.5
20
19.5
19
18.5
18
17.5
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

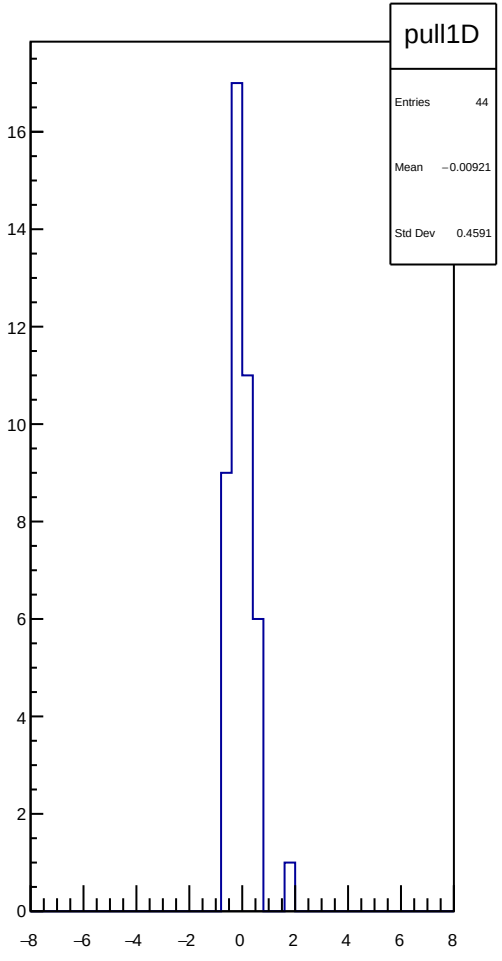

asym_bcm_an_us_cav4cQ_agg_avg_mean vs run
χ² / ndf 8.296 / 43
p0 107.4 ± 232
4000
3000
2000
1000
0
−1000
−2000
−3000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4016. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 0.3806
Std Dev 15.58
1.5
1
0.5
0
−0.5
pull1D
Entries 44
Mean −0.006468
Std Dev 0.4342
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

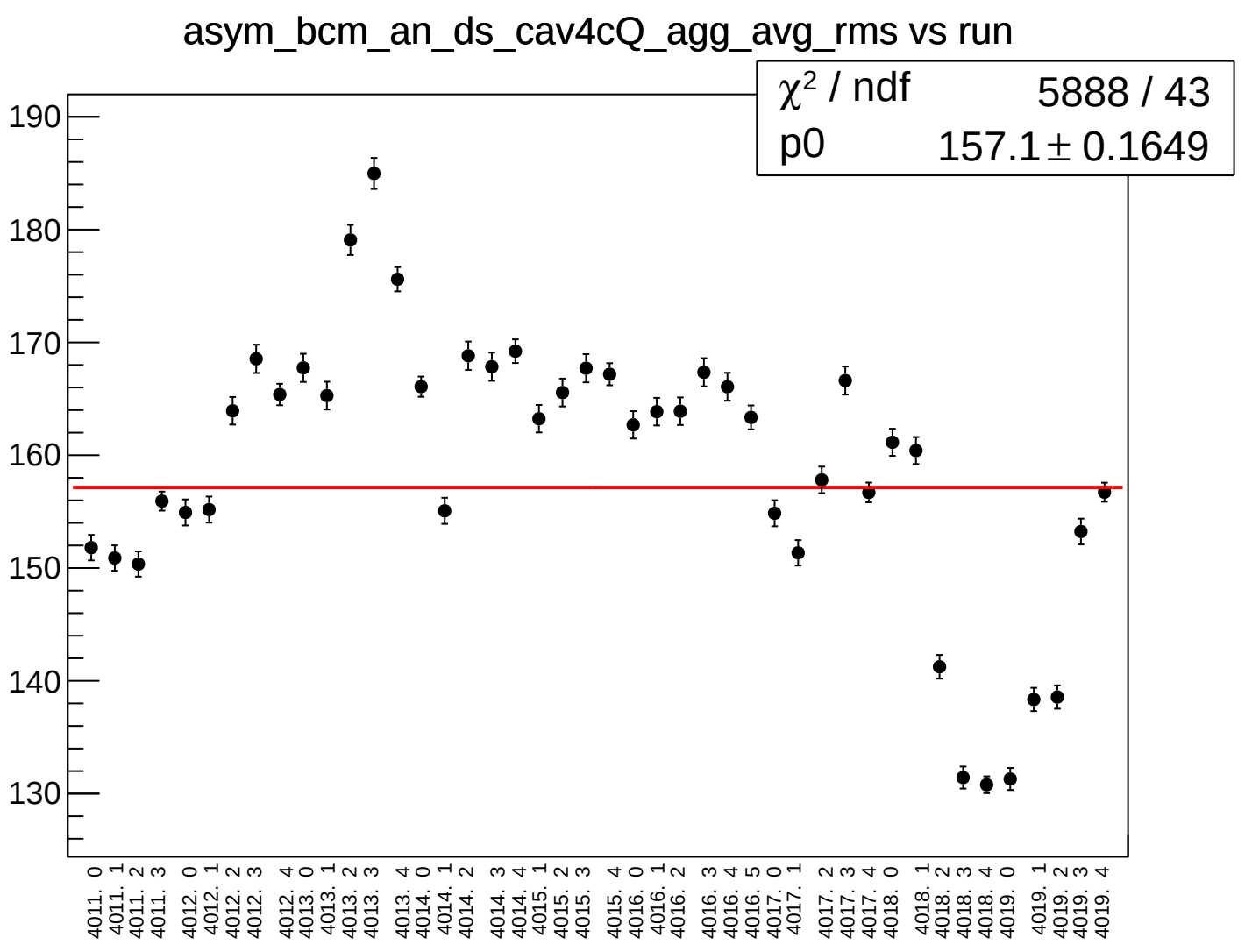

asym_bcm_an_us_cav4cQ_agg_avg_rms vs run
χ² / ndf 5656 / 43
p0 156.4 ± 0.1641
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4


asym_bcm_an_us_cav4cQ_agg_dd_mean vs run
χ² / ndf 35.97 / 43
p0 −17.79 ± 30.54
600
400
200
0
−200
−400
−600
−800
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4016. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −64.21
Std Dev 87.59
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.02439
Std Dev 0.9038
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_cav4cQ_agg_dd_rms vs run
χ² / ndf 8709 / 43
p0 20.54 ± 0.02159
32
30
28
26
24
22
20
18
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4


asym_bcm_an_ds_cav4cQ_agg_avg_mean vs run
χ² / ndf 9.279 / 43
p0 123.6 ± 233.2
pull
Entries 44
Mean 2.617
Std Dev 7.924


pull1D
Entries 44
Mean −0.00921
Std Dev 0.4591


asym_bcm_an_ds_cav4cQ_agg_avg_rms vs run
χ² / ndf 5888 / 43
p0 157.1 ± 0.1649
190
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
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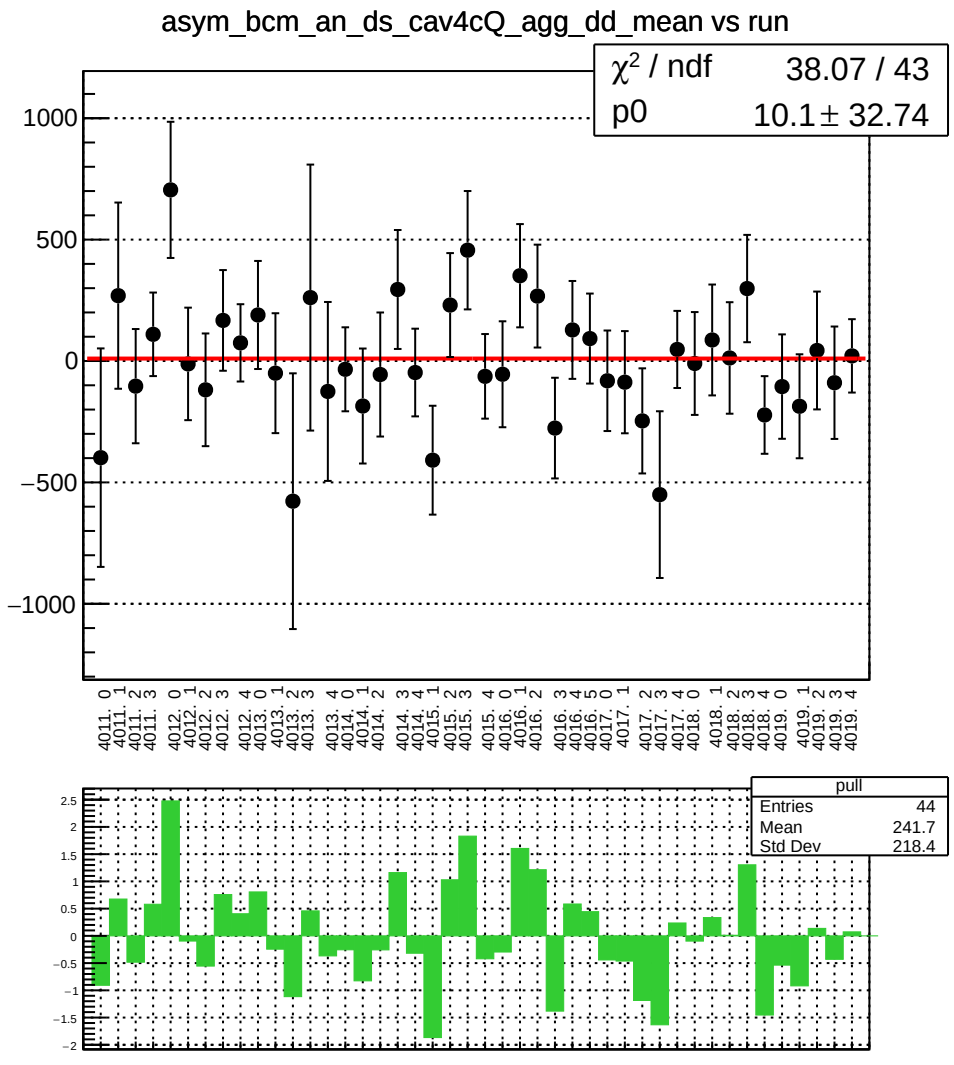
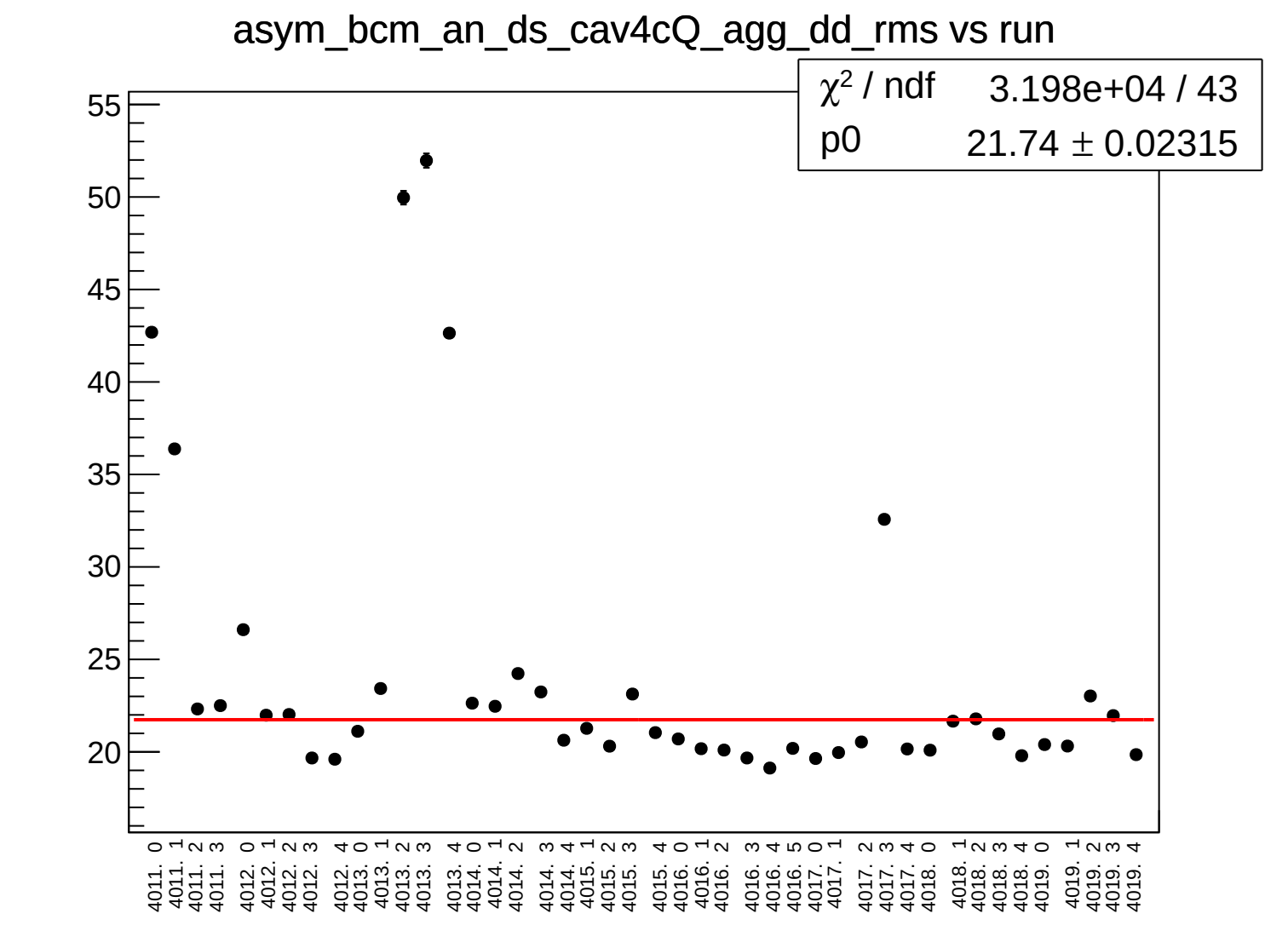
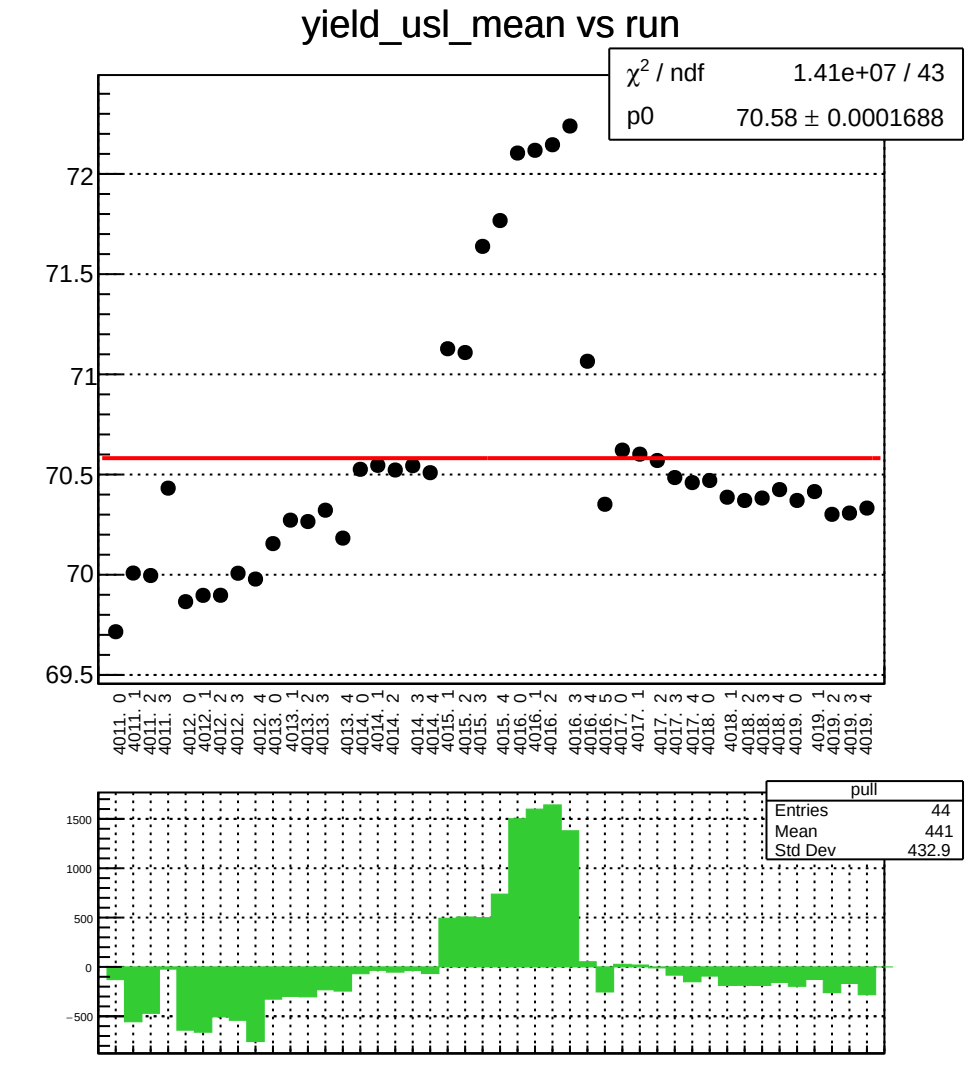
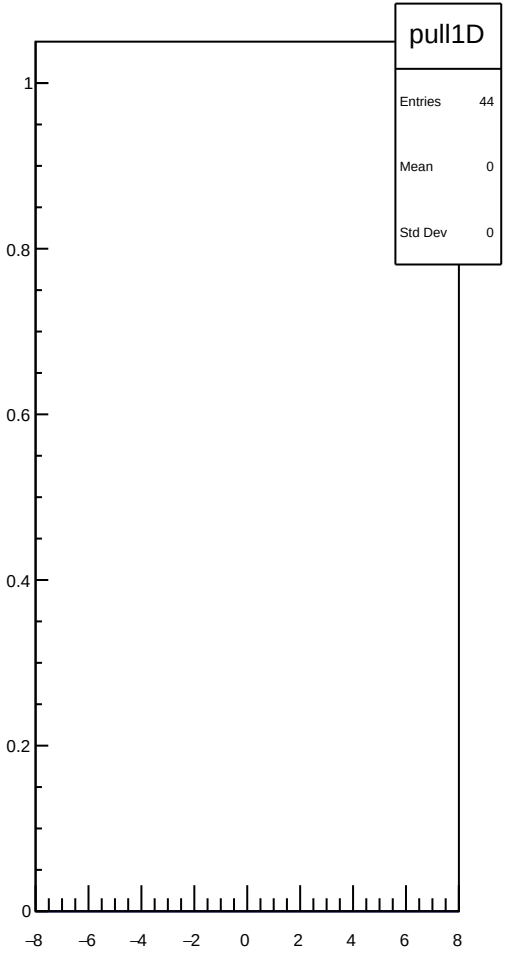
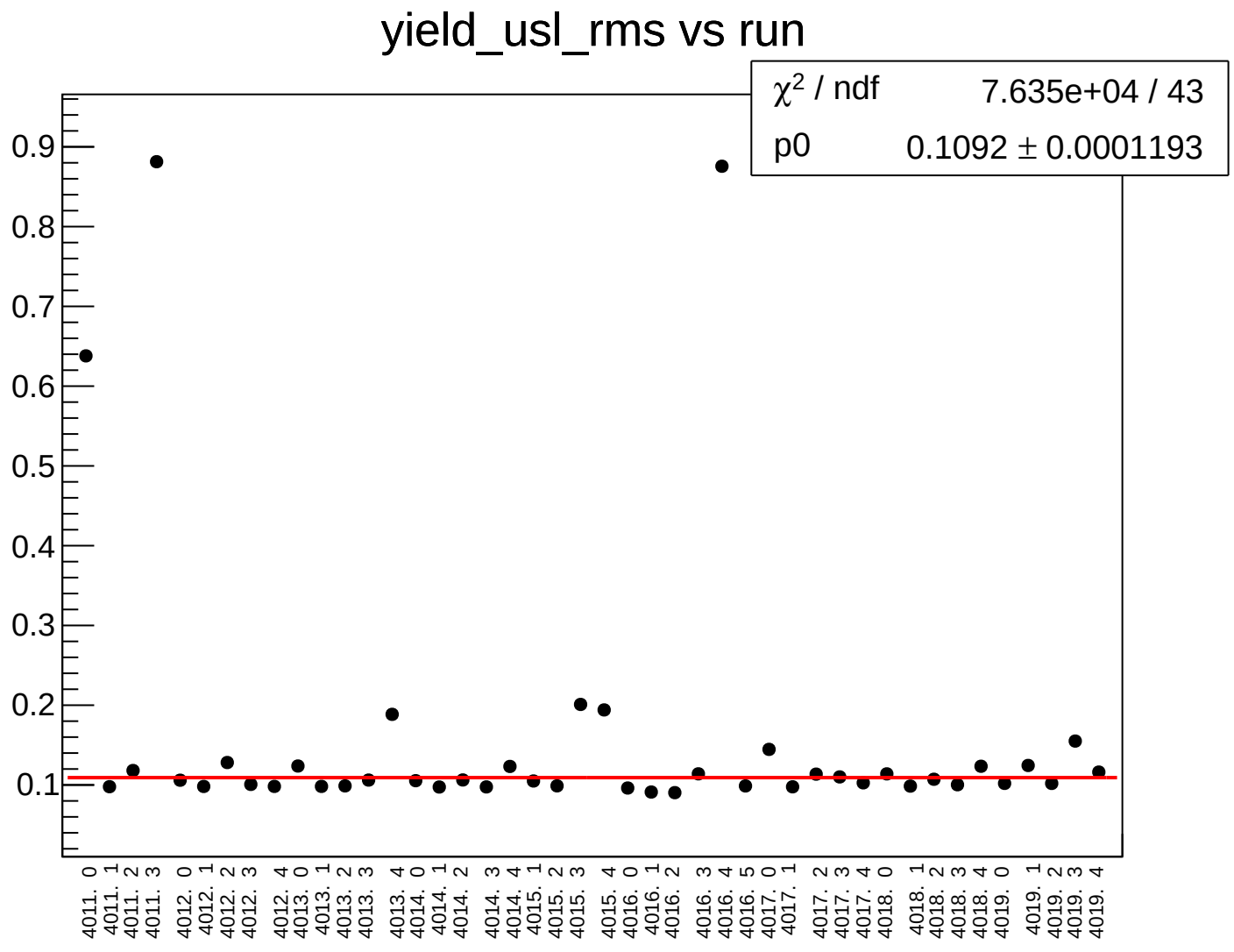
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

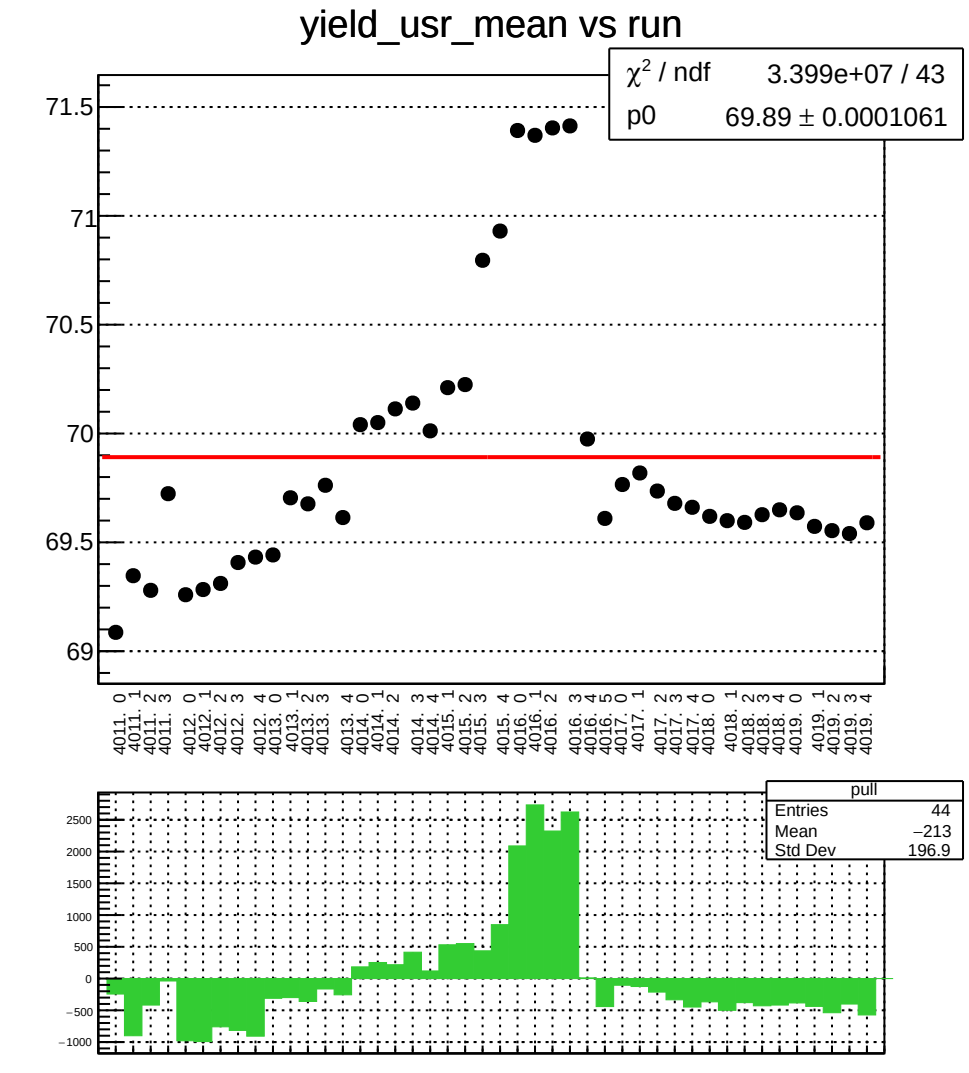

asym_bcm_an_ds_cav4cQ_agg_dd_mean vs run
χ² / ndf 38.07 / 43
p0 10.1 ± 32.74
1000
500
0
−500
−1000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 241.7
Std Dev 218.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean −0.009516
Std Dev 0.9302
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

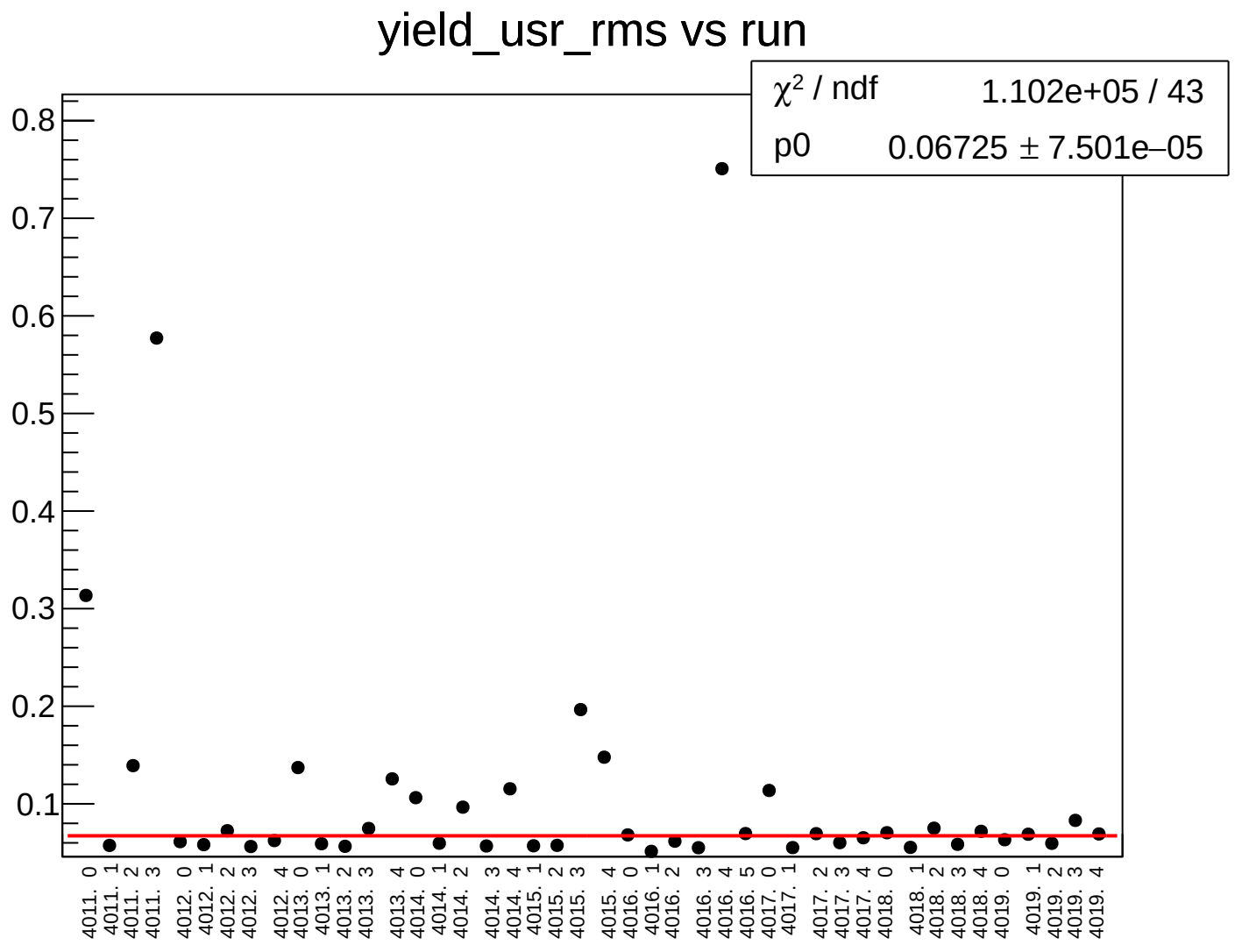

asym_bcm_an_ds_cav4cQ_agg_dd_rms vs run
χ² / ndf 3.198e+04 / 43
p0 21.74 ± 0.02315
55
50
45
40
35
30
25
20
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

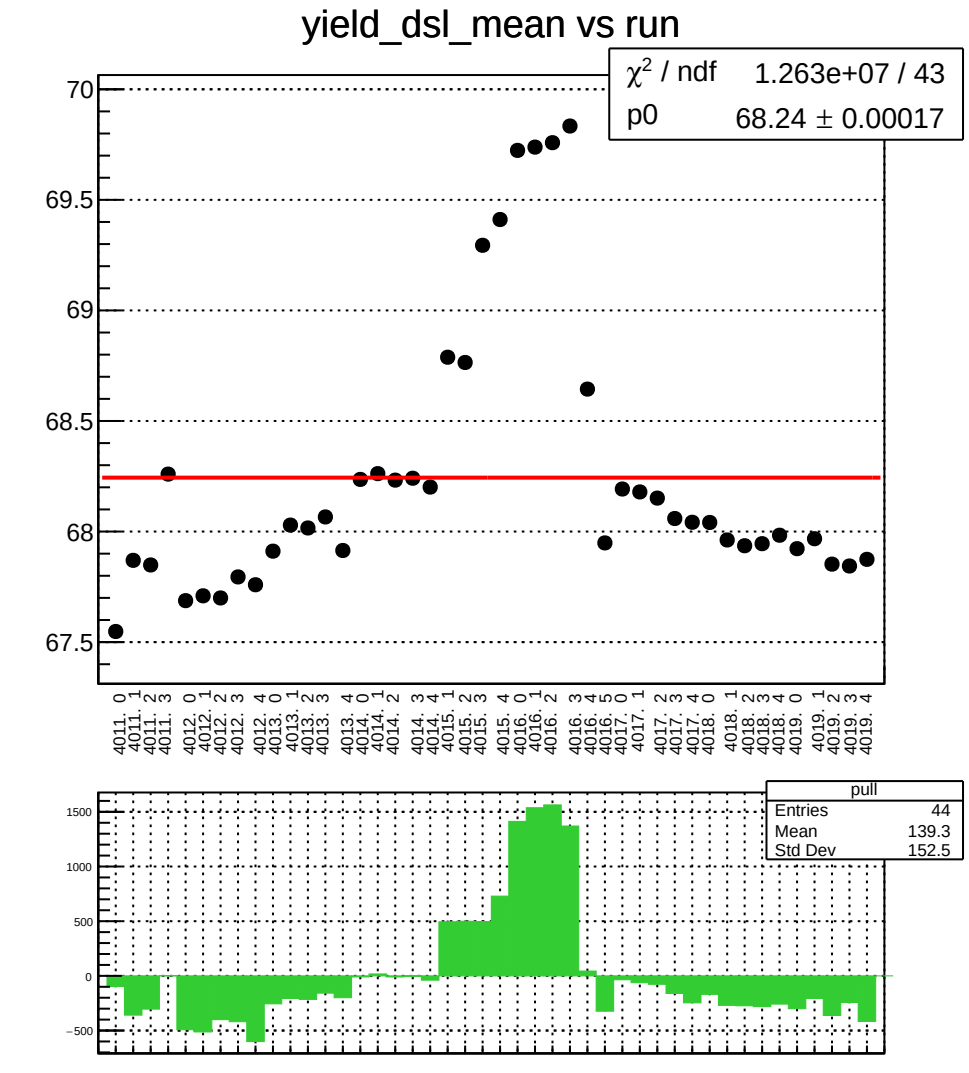

yield_usl_mean vs run
χ² / ndf 1.41e+07 / 43
p0 70.58 ± 0.0001688
72
71.5
71
70.5
70
69.5
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 441
Std Dev 432.9
1500
1000
500
0
−500

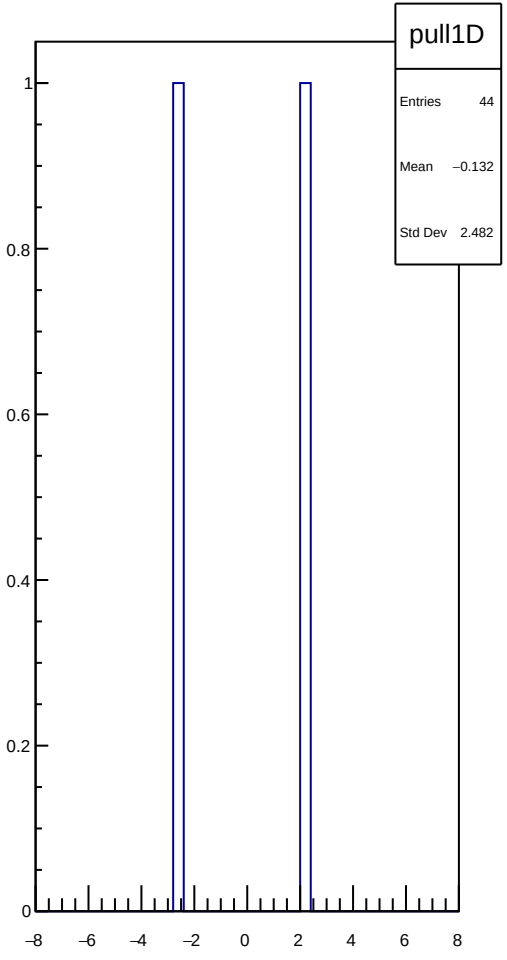

pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

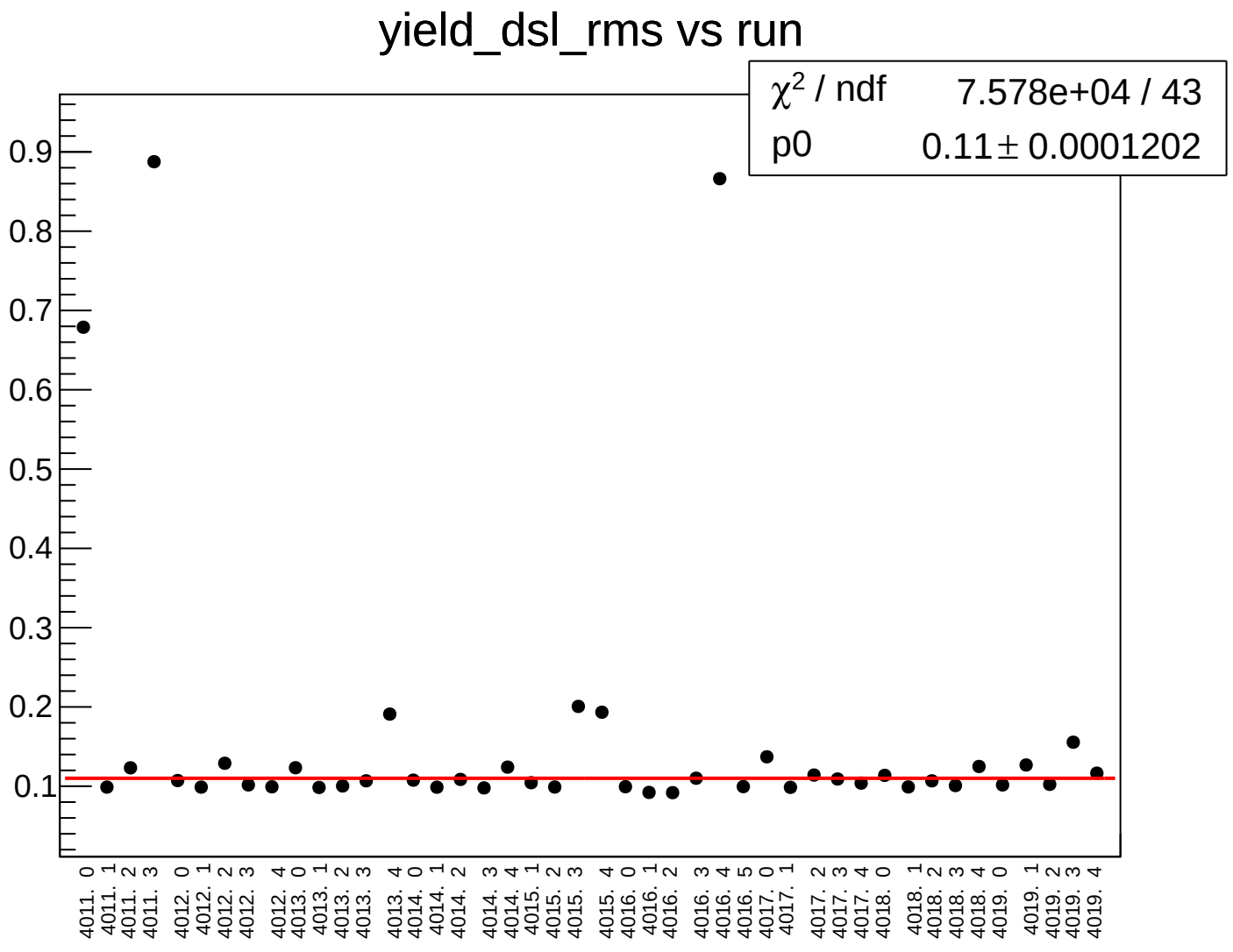

yield_usl_rms vs run
χ² / ndf 7.635e+04 / 43
p0 0.1092 ± 0.0001193
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

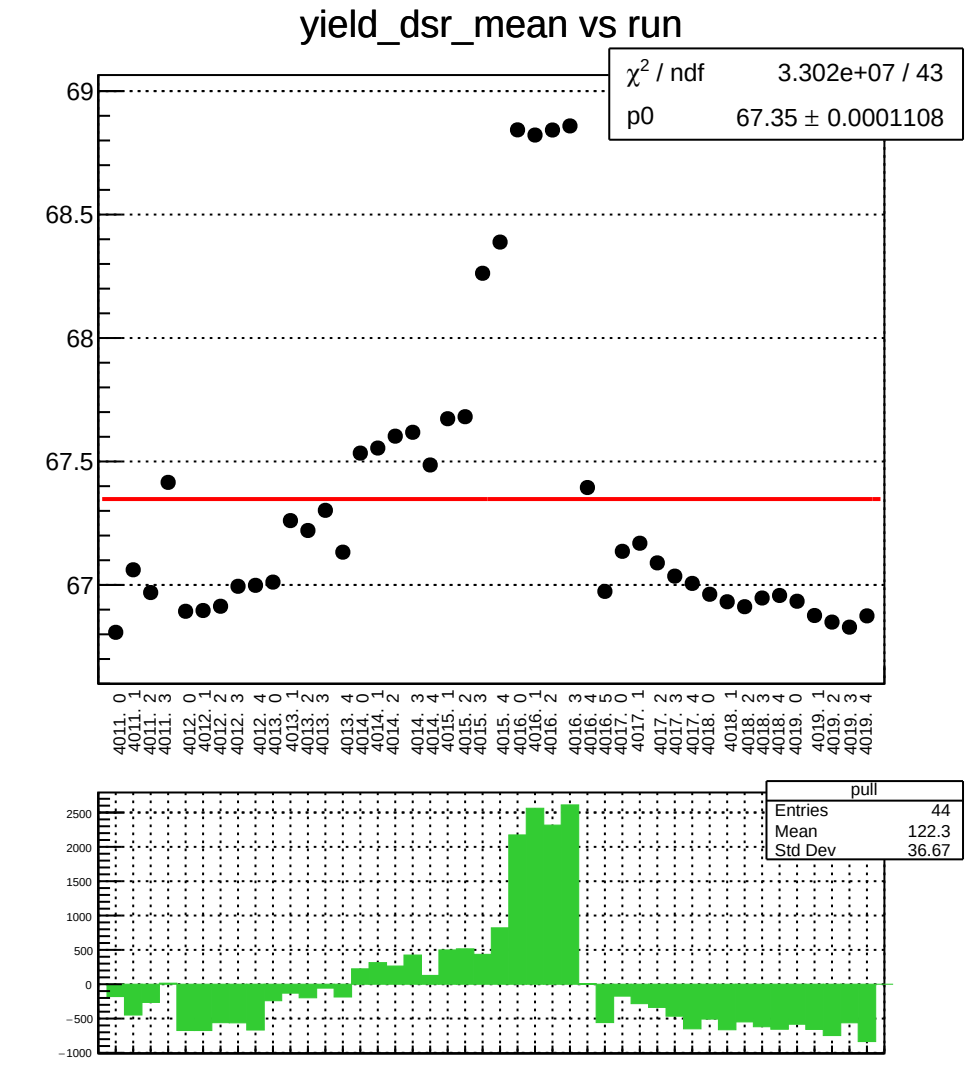

yield_usr_mean vs run
χ² / ndf 3.399e+07 / 43
p0 69.89 ± 0.0001061
71.5
71
70.5
70
69.5
69
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −213
Std Dev 196.9
2500
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

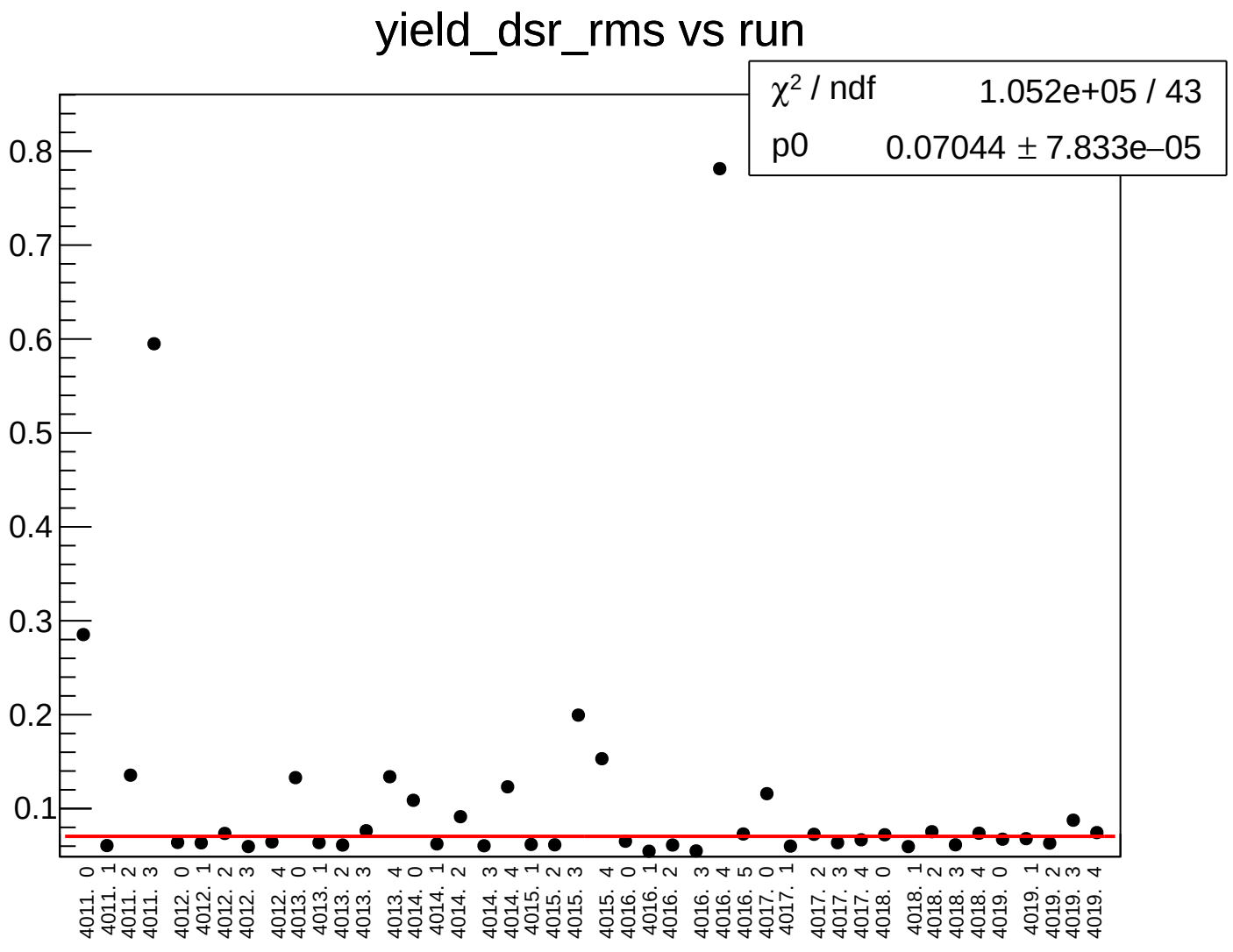

yield_usr_rms vs run
χ² / ndf 1.102e+05 / 43
p0 0.06725 ± 7.501e–05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

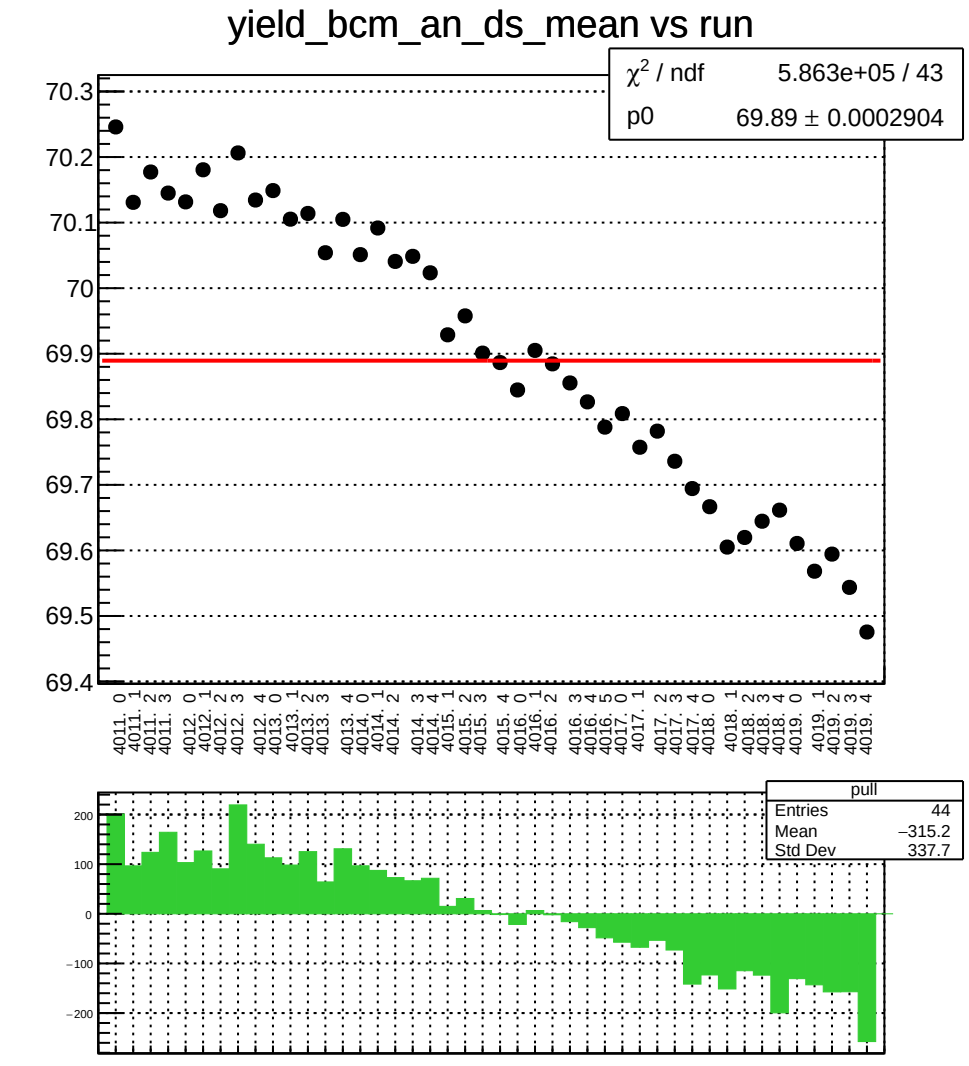

yield_dsl_mean vs run
χ² / ndf 1.263e+07 / 43
p0 68.24 ± 0.00017
70
69.5
69
68.5
68
67.5
pull
Entries 44
Mean 139.3
Std Dev 152.5
1500
1000
500
0
−500

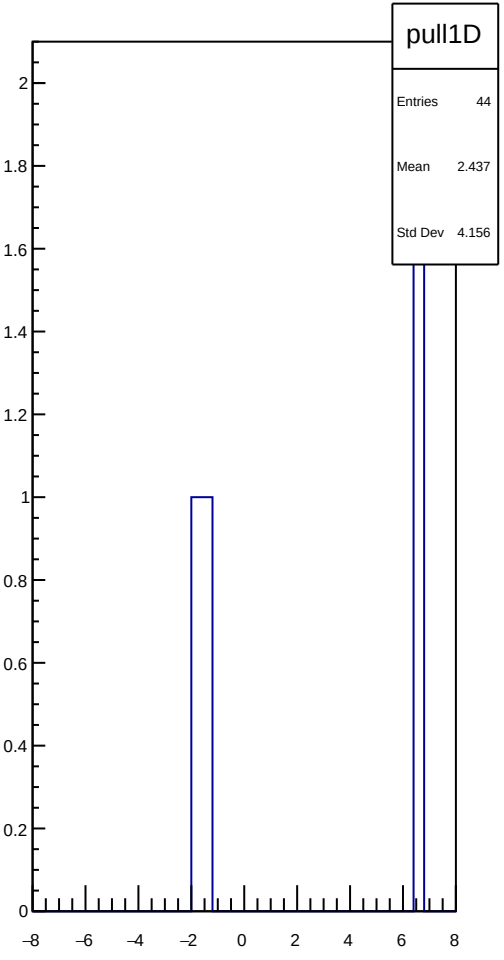

pull1D
Entries 44
Mean −0.132
Std Dev 2.482
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

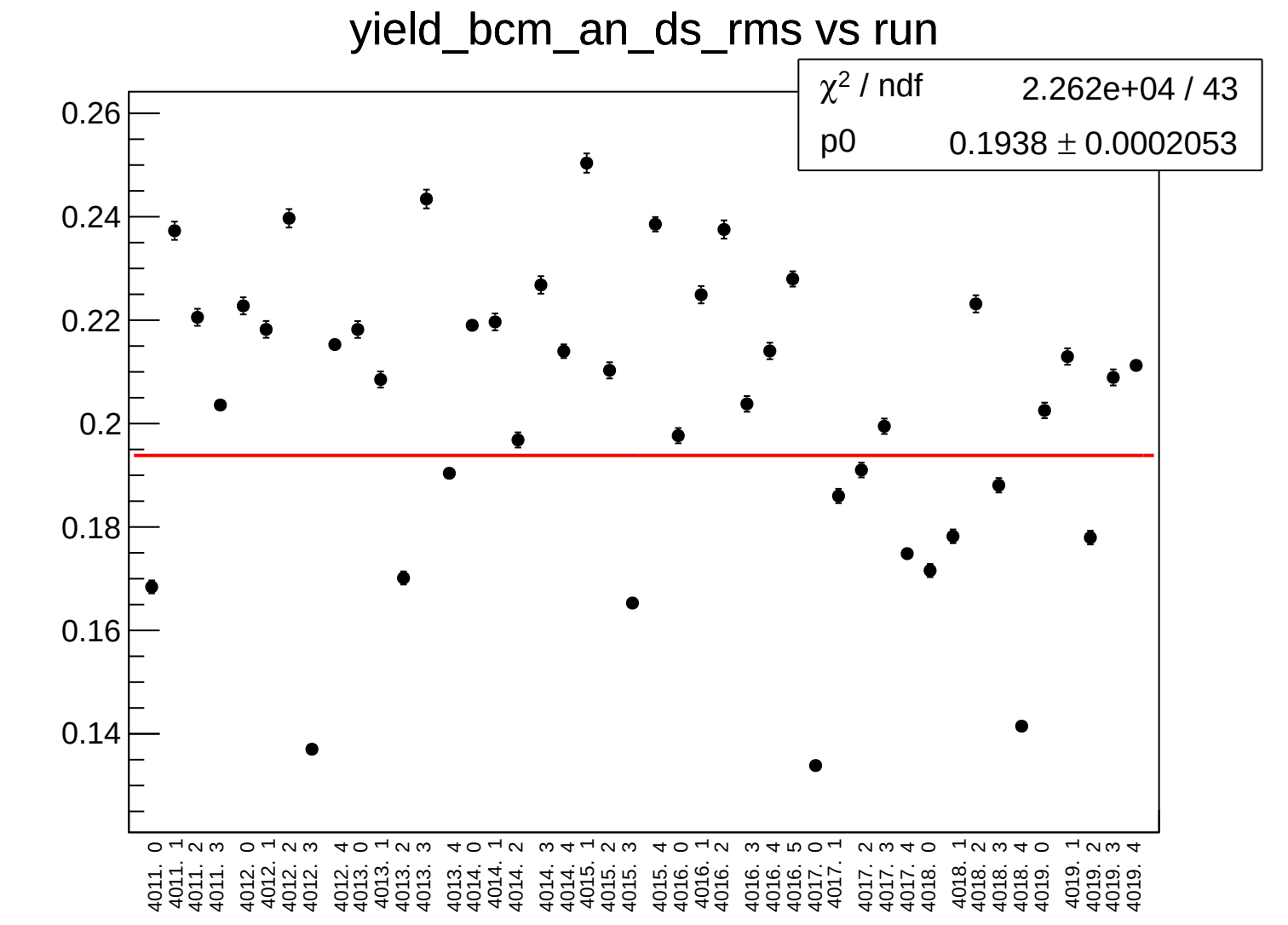

yield_dsl_rms vs run
χ² / ndf 7.578e+04 / 43
p0 0.11 ± 0.0001202
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

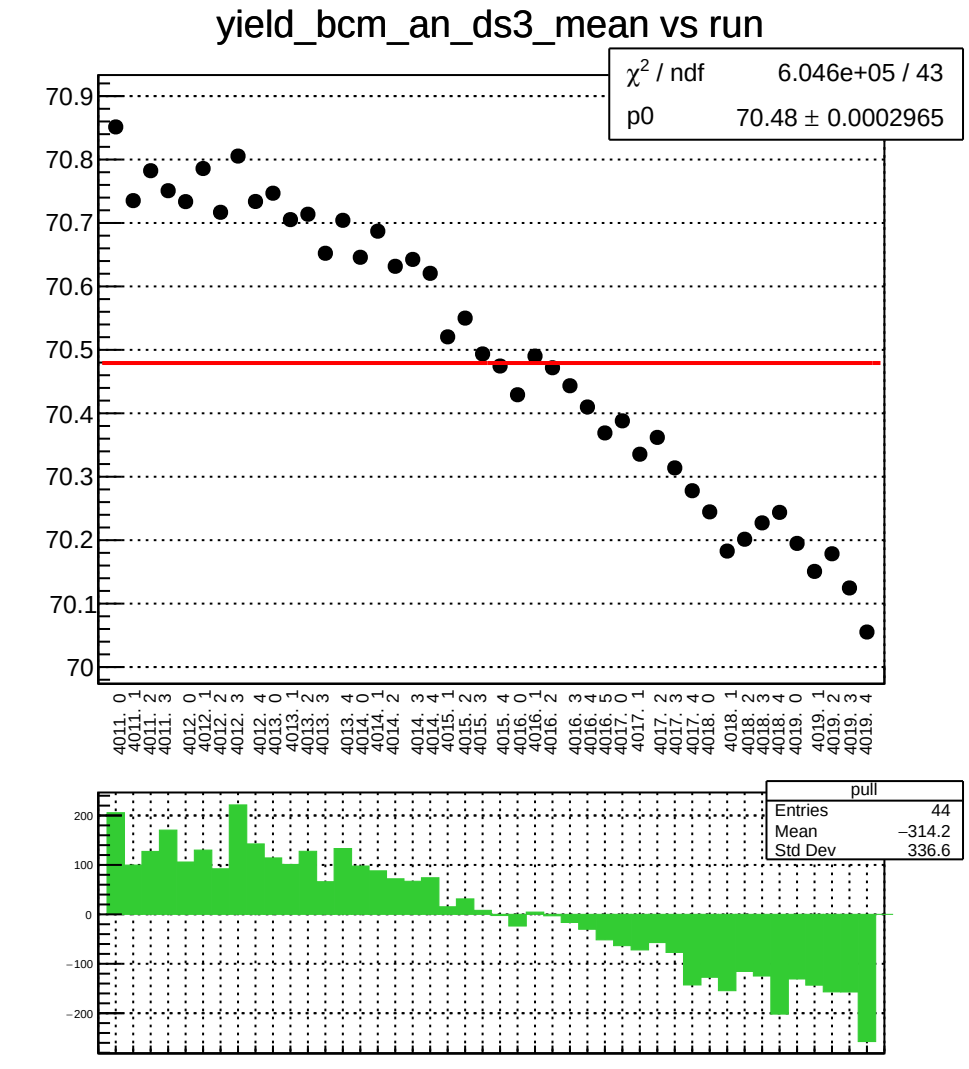

yield_dsr_mean vs run
χ² / ndf 3.302e+07 / 43
p0 67.35 ± 0.0001108
69
68.5
68
67.5
67
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 122.3
Std Dev 36.67
2500
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 44
Mean 5.678
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

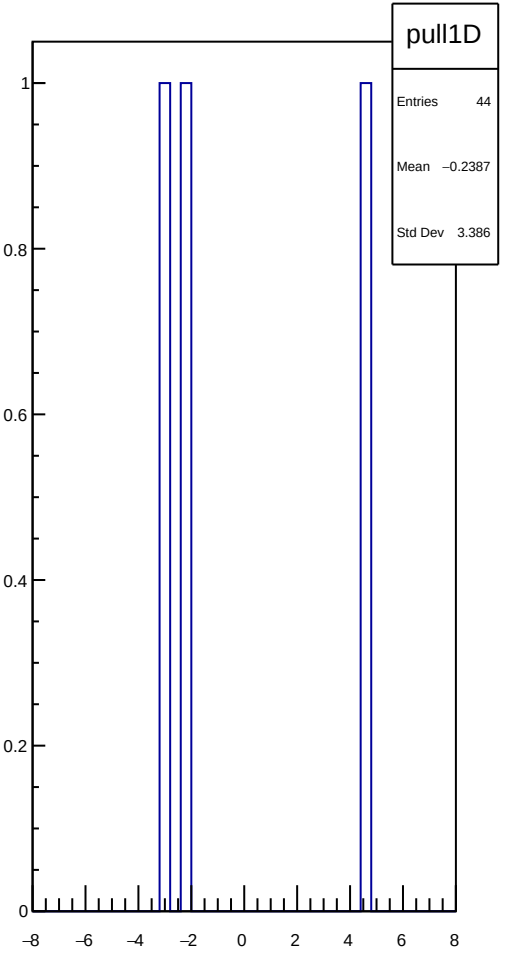

yield_dsr_rms vs run
χ² / ndf 1.052e+05 / 43
p0 0.07044 ± 7.833e–05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

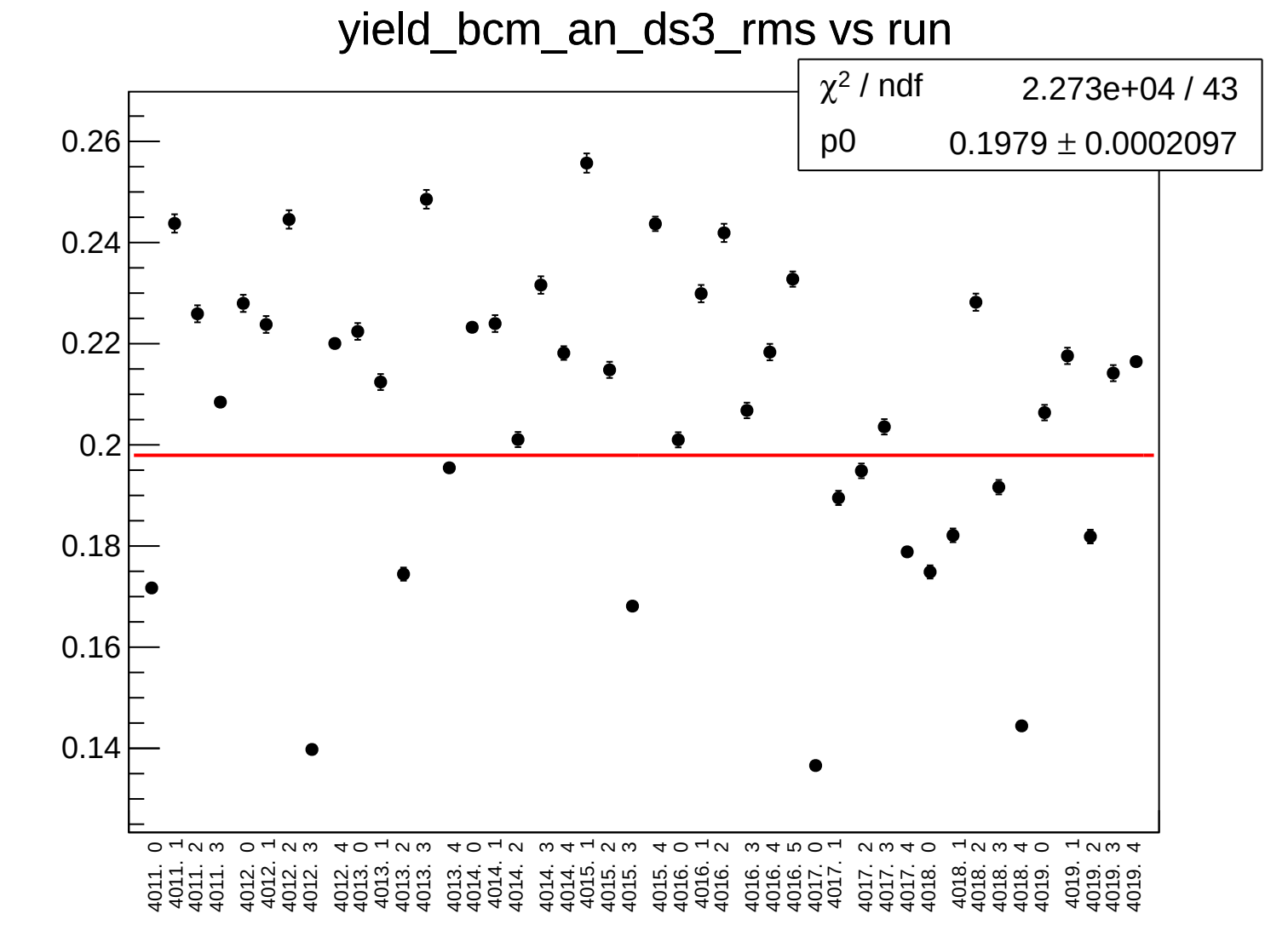

yield_bcm_an_ds_mean vs run
χ² / ndf 5.863e+05 / 43
p0 69.89 ± 0.0002904
70.3
70.2
70.1
70
69.9
69.8
69.7
69.6
69.5
69.4
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −315.2
Std Dev 337.7
200
100
0
−100
−200

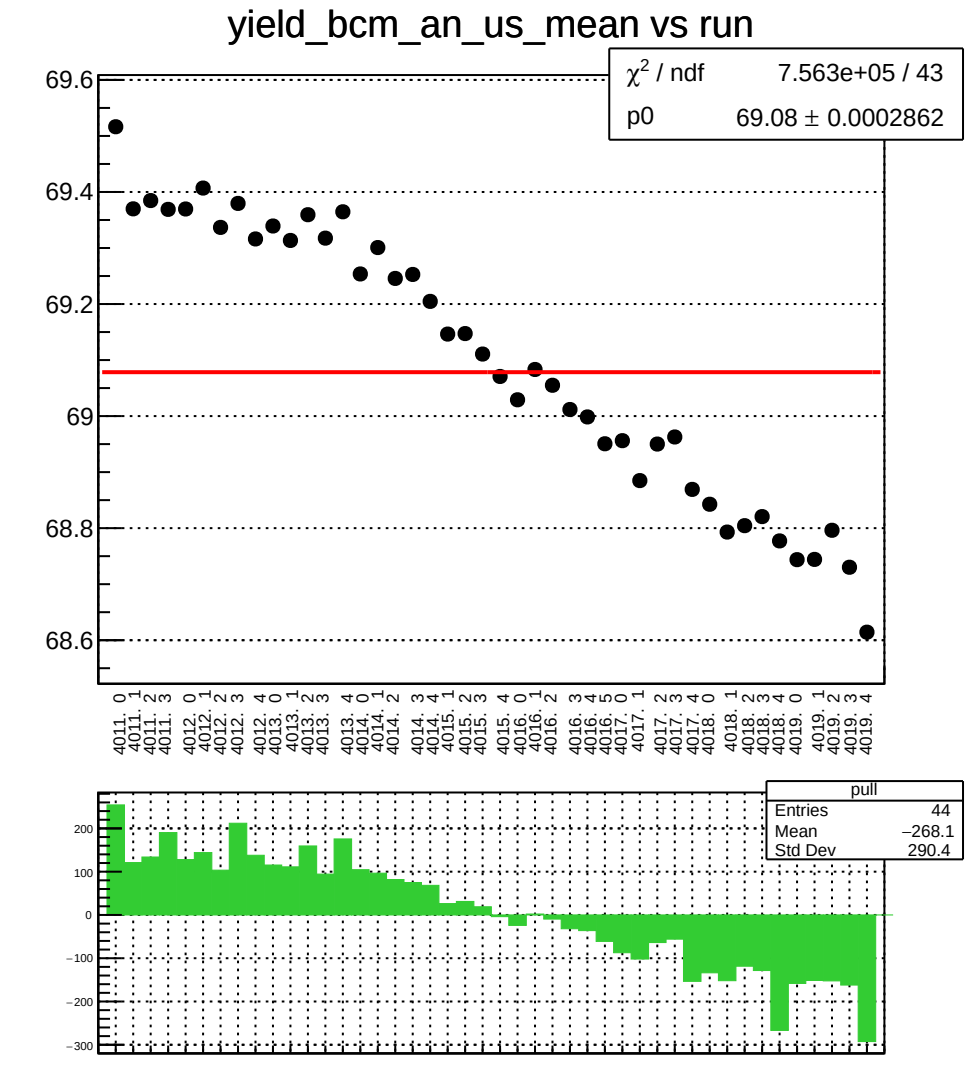

pull1D
Entries 44
Mean 2.437
Std Dev 4.156
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

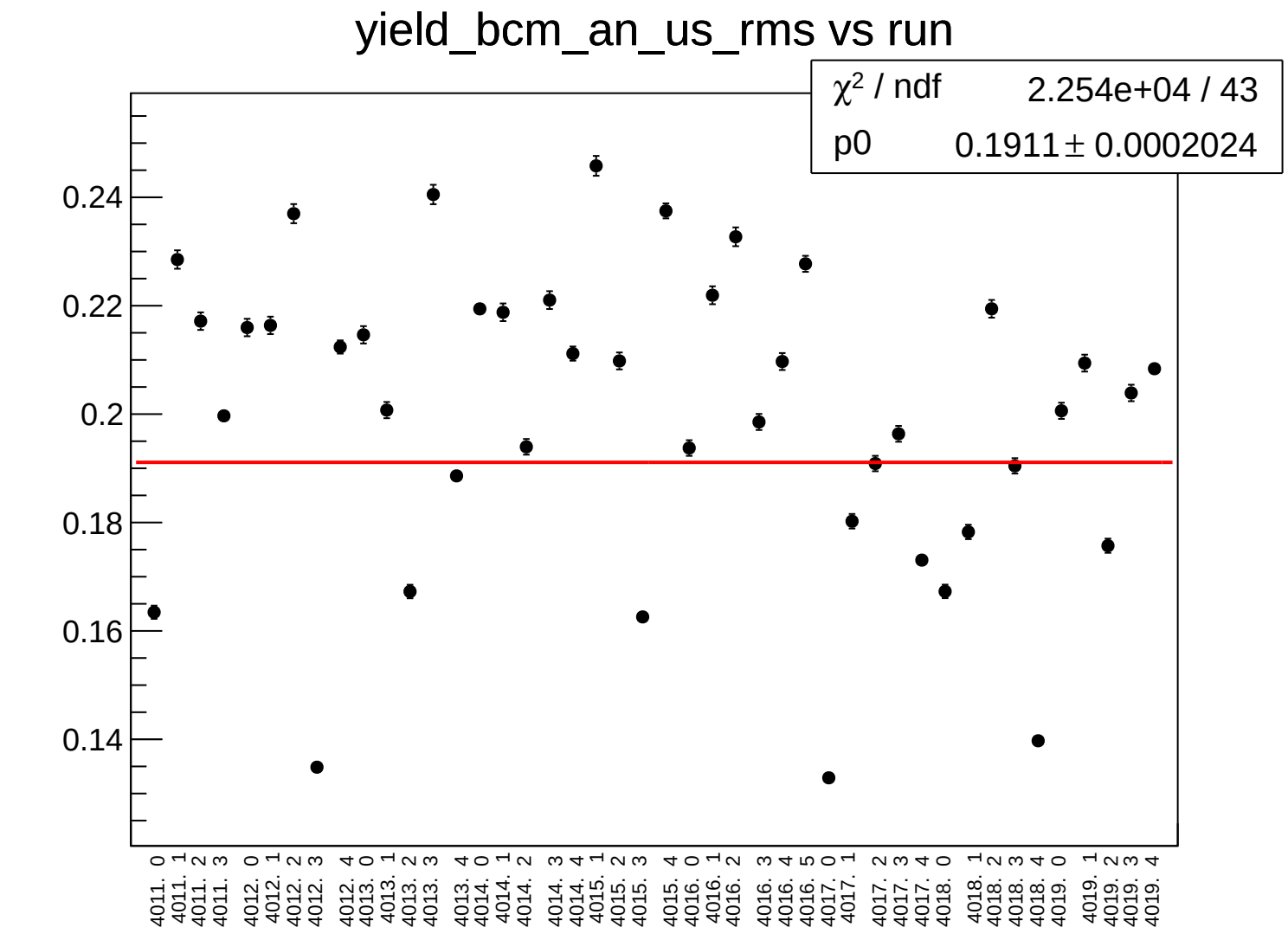

yield_bcm_an_ds_rms vs run
χ² / ndf 2.262e+04 / 43
p0 0.1938 ± 0.0002053
0.26
0.24
0.22
0.2
0.18
0.16
0.14
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

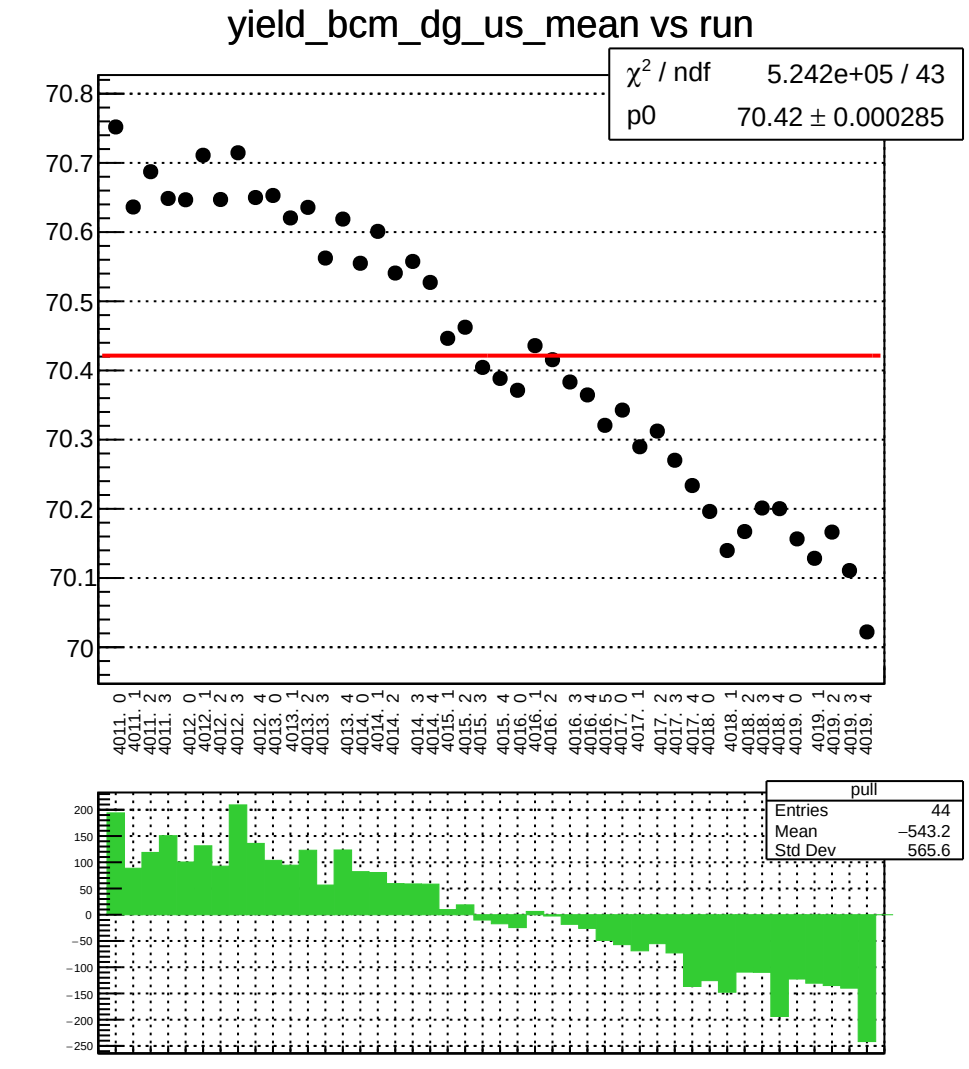

yield_bcm_an_ds3_mean vs run
χ² / ndf 6.046e+05 / 43
p0 70.48 ± 0.0002965
70.9
70.8
70.7
70.6
70.5
70.4
70.3
70.2
70.1
70
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −314.2
Std Dev 336.6
200
100
0
−100
−200

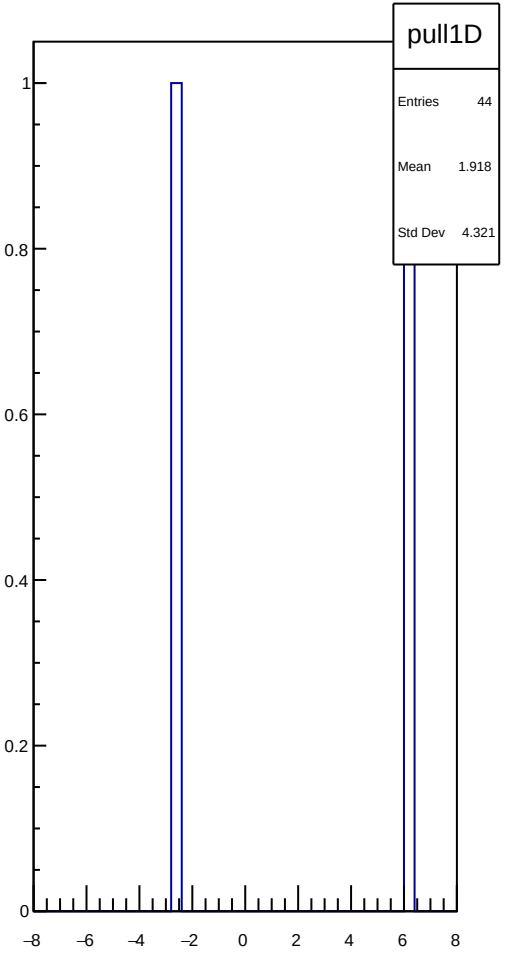

pull1D
Entries 44
Mean −0.2387
Std Dev 3.386
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

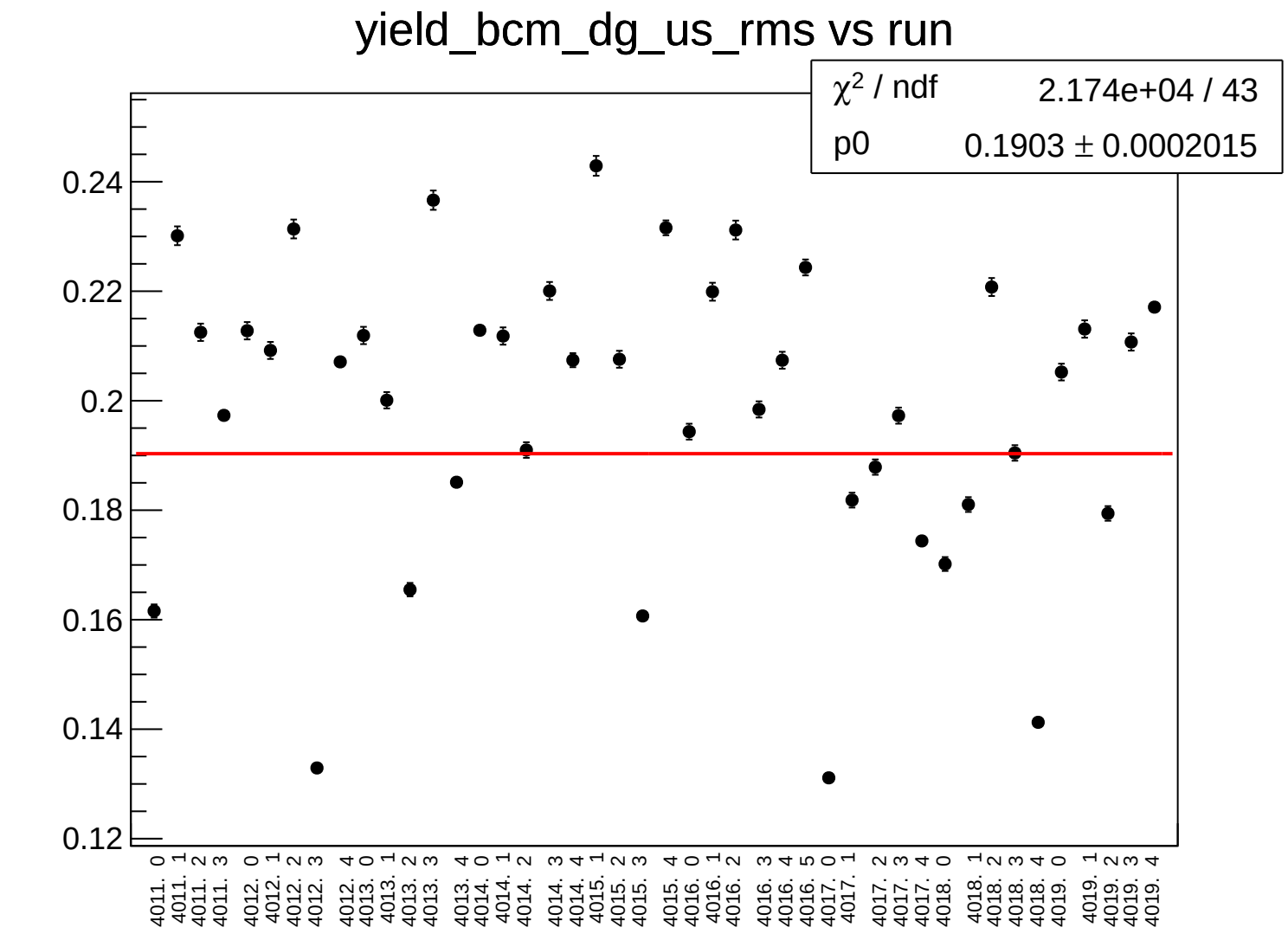

yield_bcm_an_ds3_rms vs run
χ² / ndf 2.273e+04 / 43
p0 0.1979 ± 0.0002097
0.26
0.24
0.22
0.2
0.18
0.16
0.14
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

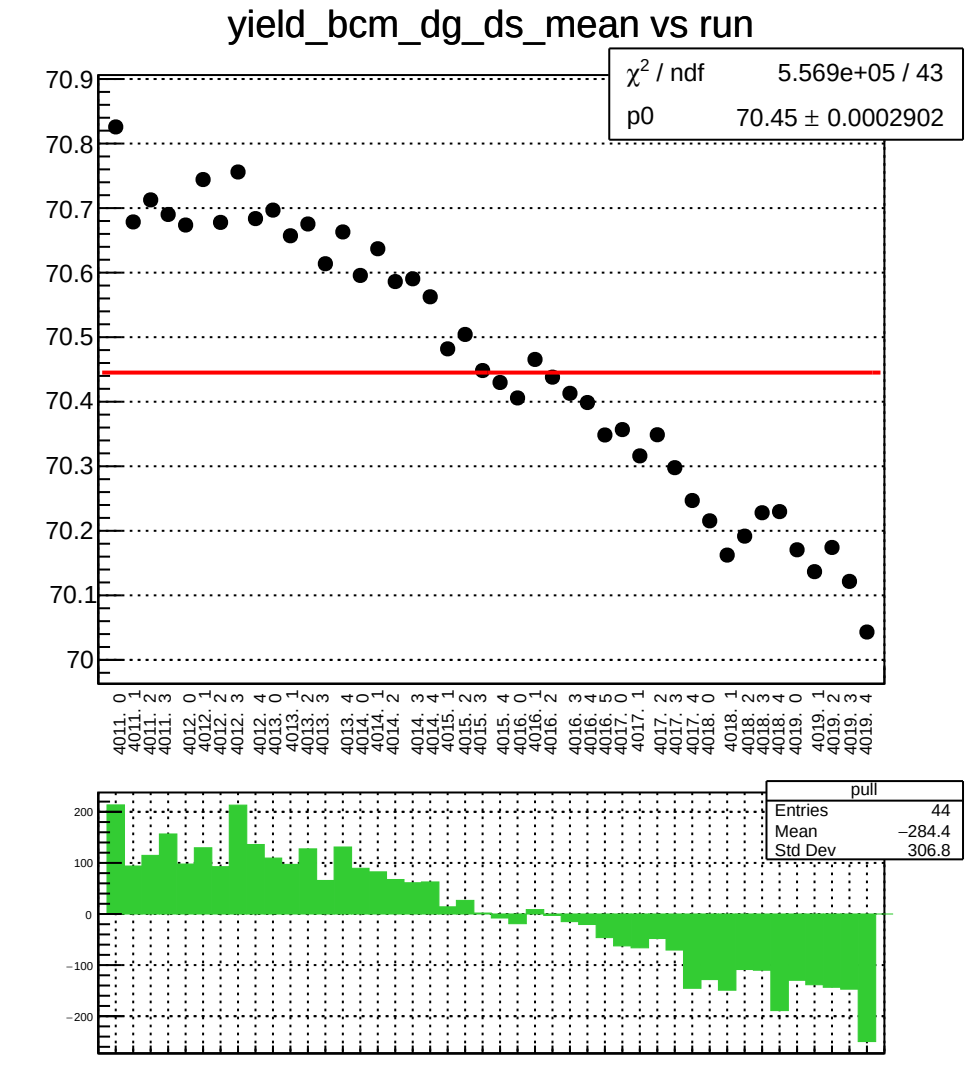

yield_bcm_an_us_mean vs run
χ² / ndf 7.563e+05 / 43
p0 69.08 ± 0.0002862
69.6
69.4
69.2
69
68.8
68.6
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −268.1
Std Dev 290.4
200
100
0
−100
−200
−300
pull1D
Entries 44
Mean −0.9035
Std Dev 2.975
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

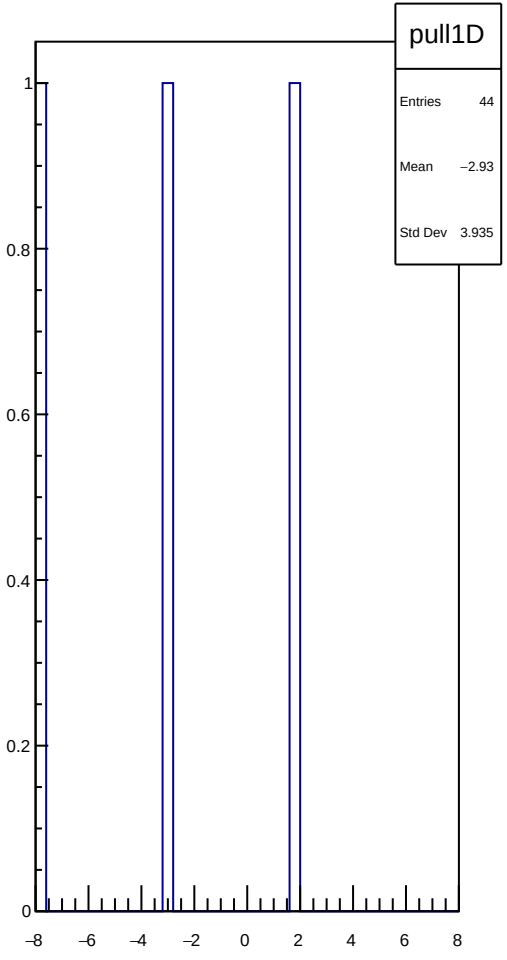

yield_bcm_an_us_rms vs run
χ² / ndf 2.254e+04 / 43
p0 0.1911 ± 0.0002024
0.24
0.22
0.2
0.18
0.16
0.14
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

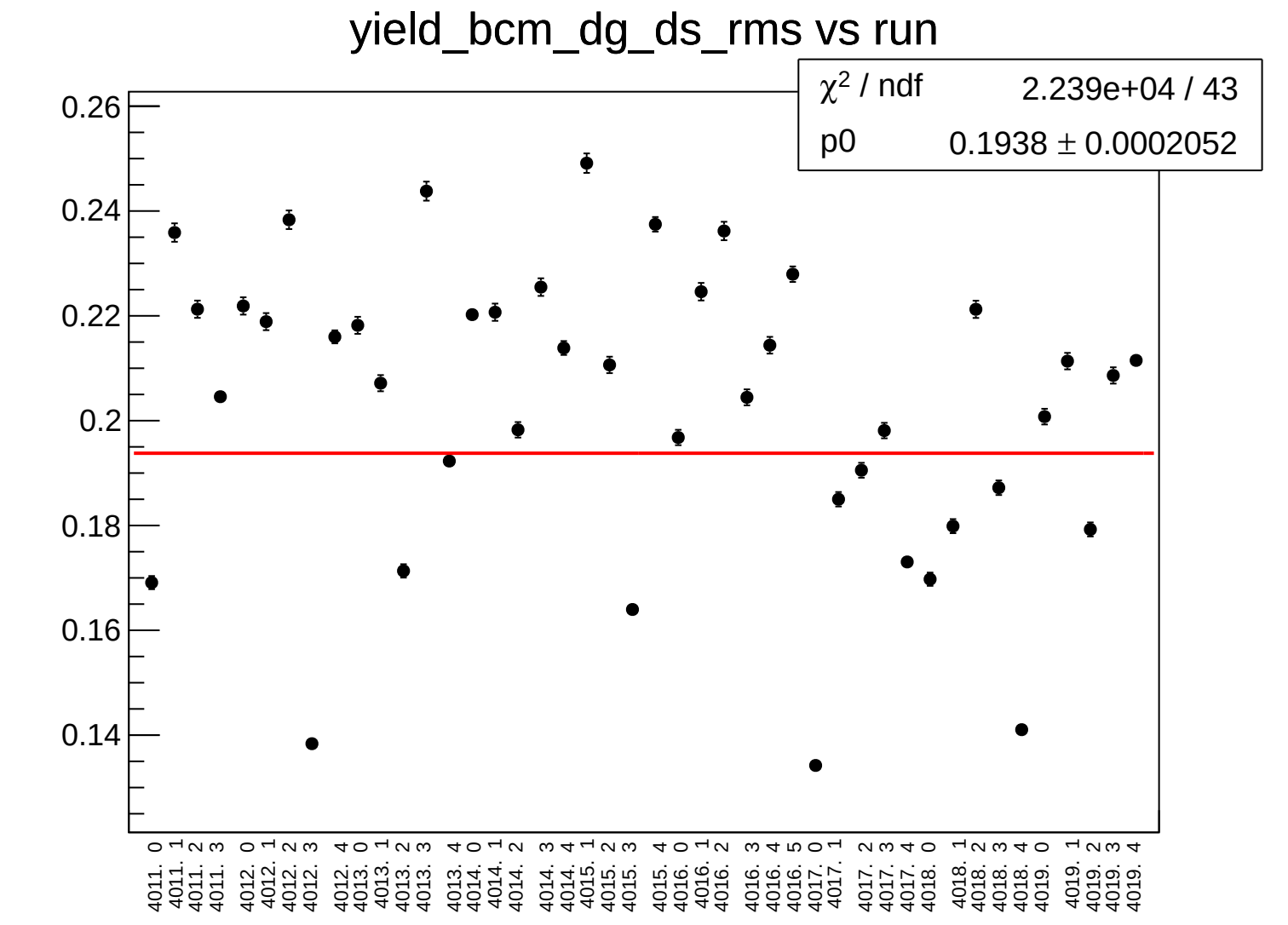

yield_bcm_dg_us_mean vs run
χ² / ndf 5.242e+05 / 43
p0 70.42 ± 0.000285
70.8
70.7
70.6
70.5
70.4
70.3
70.2
70.1
70
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −543.2
Std Dev 565.6
200
150
100
50
0
−50
−100
−150
−200
−250

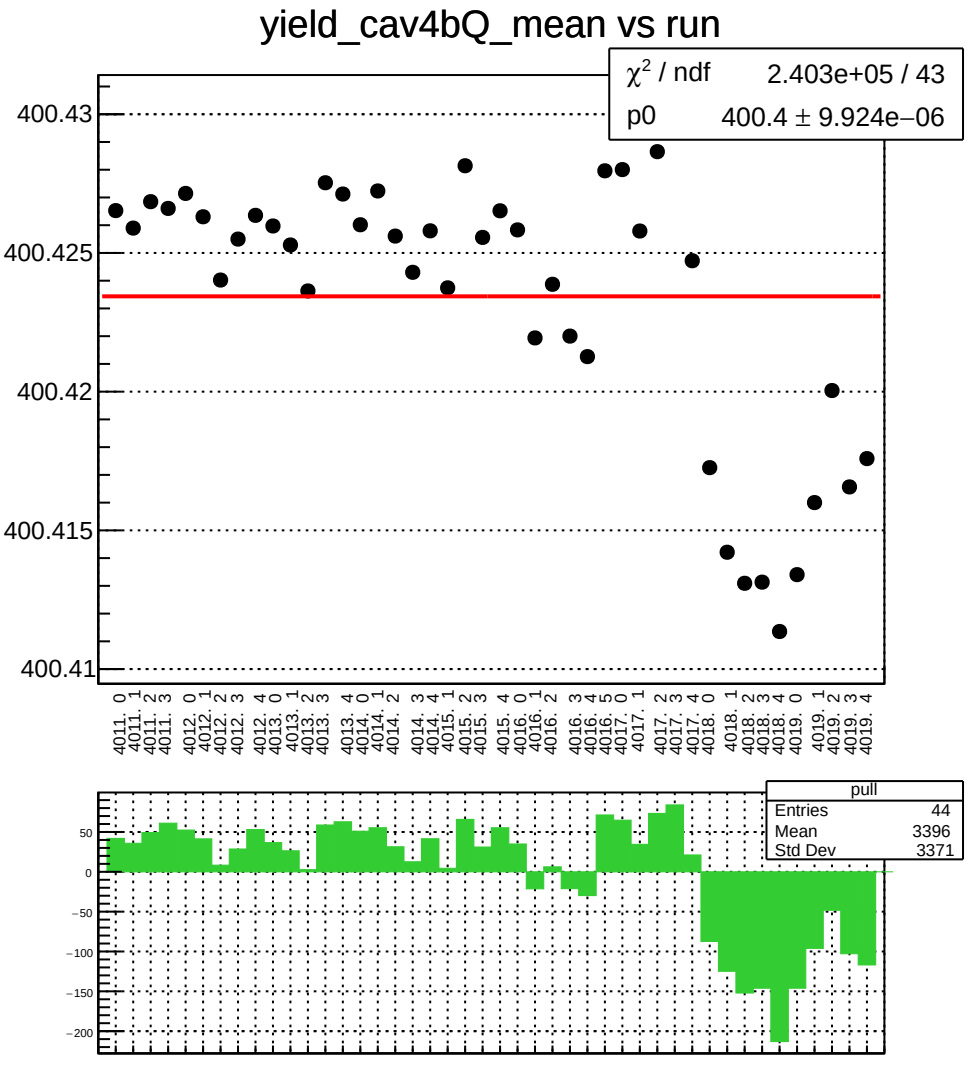

pull1D
Entries 44
Mean 1.918
Std Dev 4.321
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

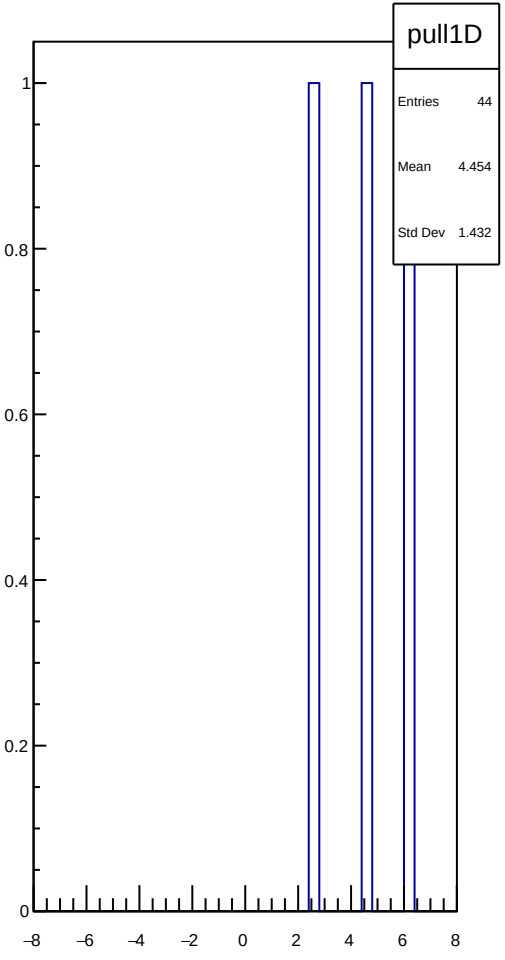

yield_bcm_dg_us_rms vs run
χ² / ndf 2.174e+04 / 43
p0 0.1903 ± 0.0002015
0.24
0.22
0.2
0.18
0.16
0.14
0.12
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

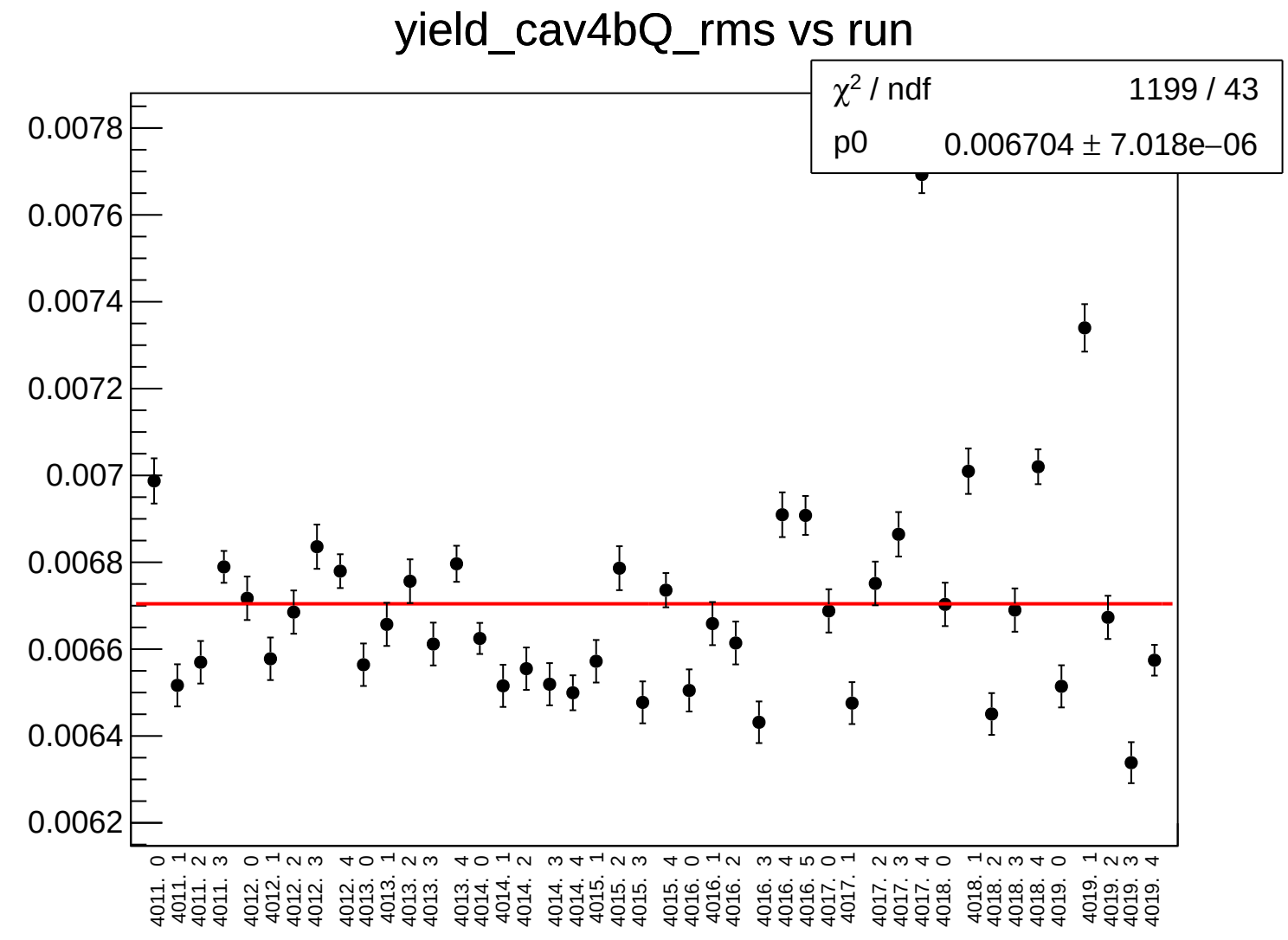

yield_bcm_dg_ds_mean vs run
χ² / ndf 5.569e+05 / 43
p0 70.45 ± 0.0002902
70.9
70.8
70.7
70.6
70.5
70.4
70.3
70.2
70.1
70
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −284.4
Std Dev 306.8
200
100
0
−100
−200

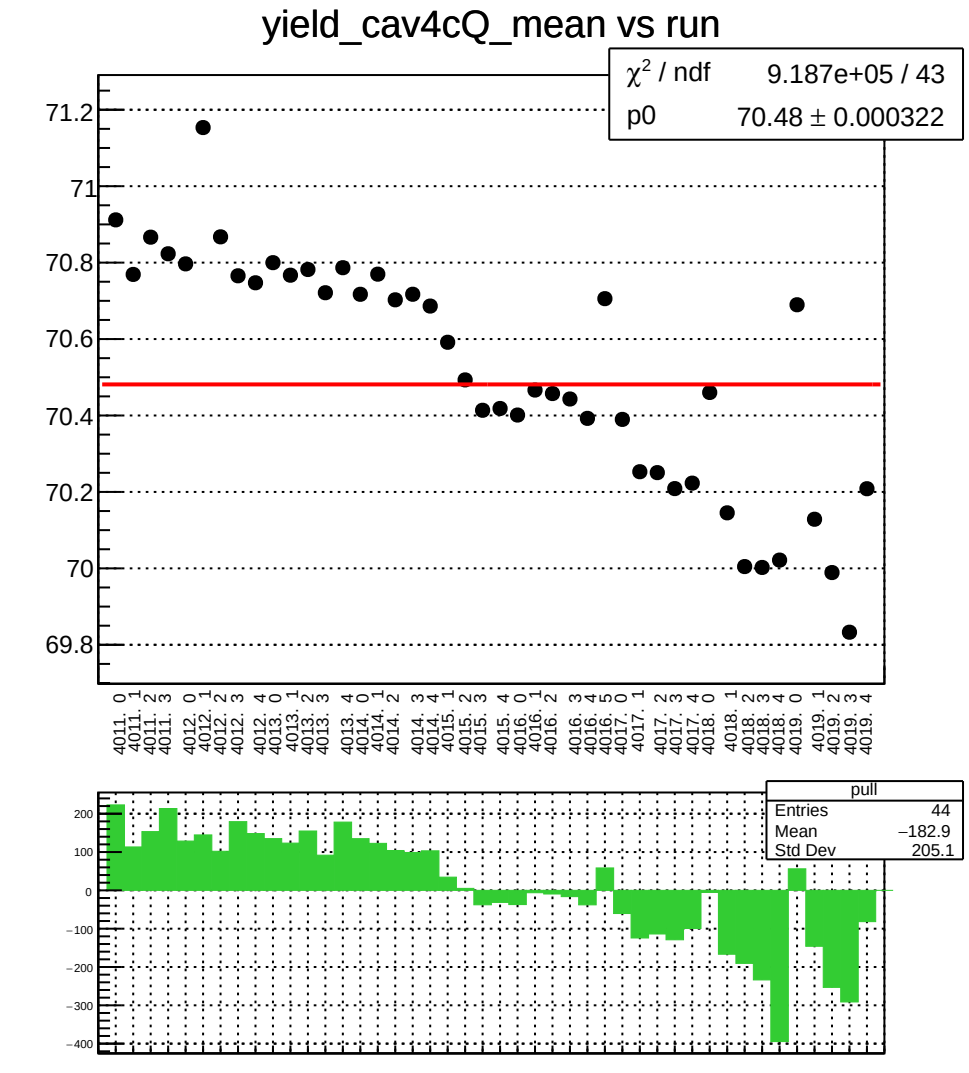

pull1D
Entries 44
Mean −2.93
Std Dev 3.935
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

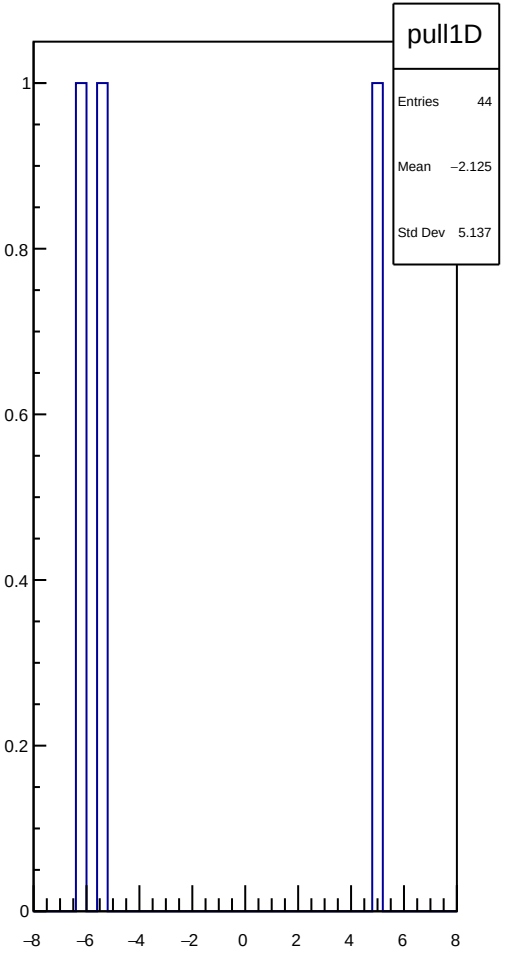

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.239e+04 / 43
p0 0.1938 ± 0.0002052
0.26
0.24
0.22
0.2
0.18
0.16
0.14
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

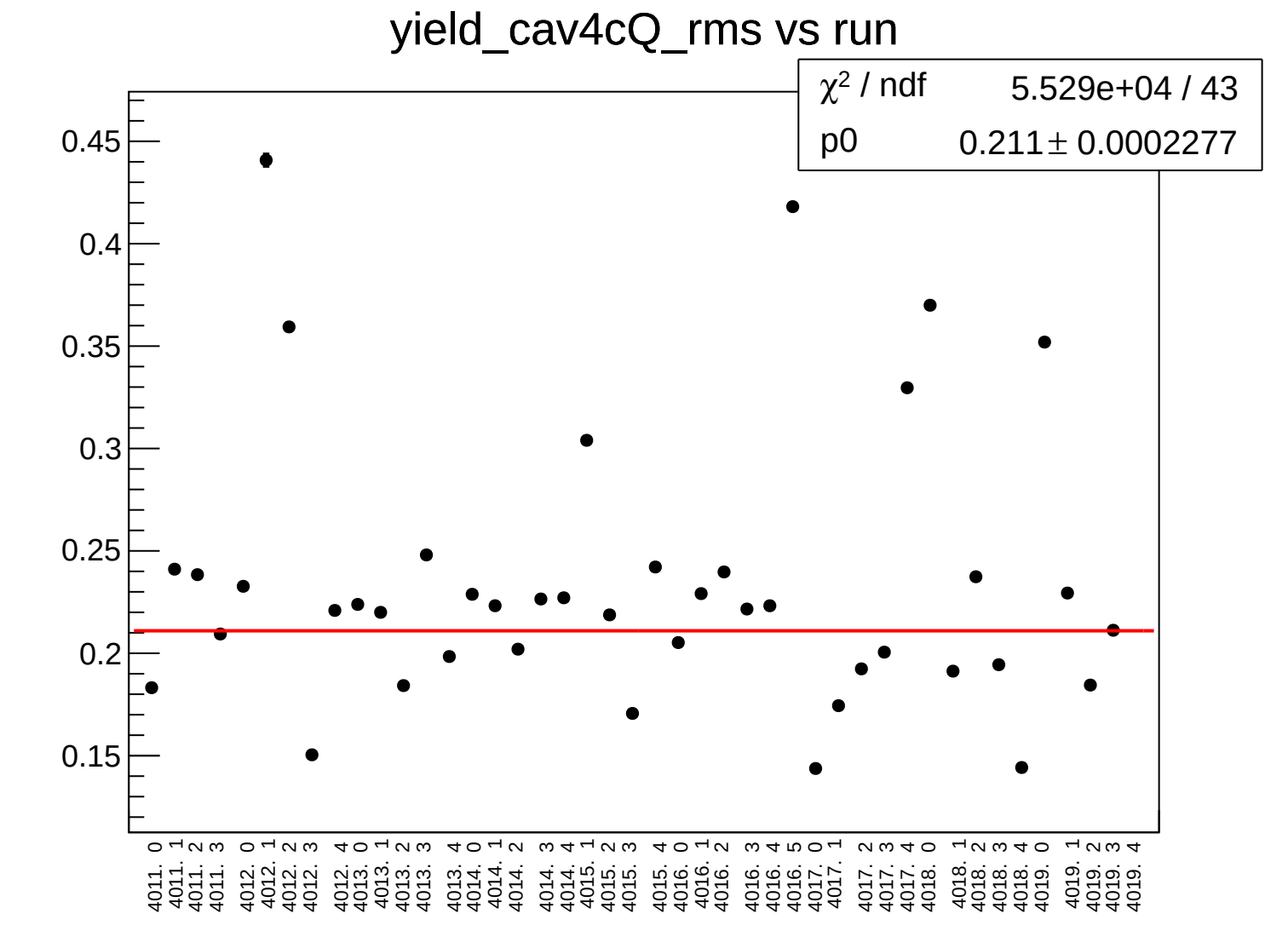

yield_cav4bQ_mean vs run
χ² / ndf 2.403e+05 / 43
p0 400.4 ± 9.924e−06
400.43
400.425
400.42
400.415
400.41
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 3396
Std Dev 3371
50
0
−50
−100
−150
−200

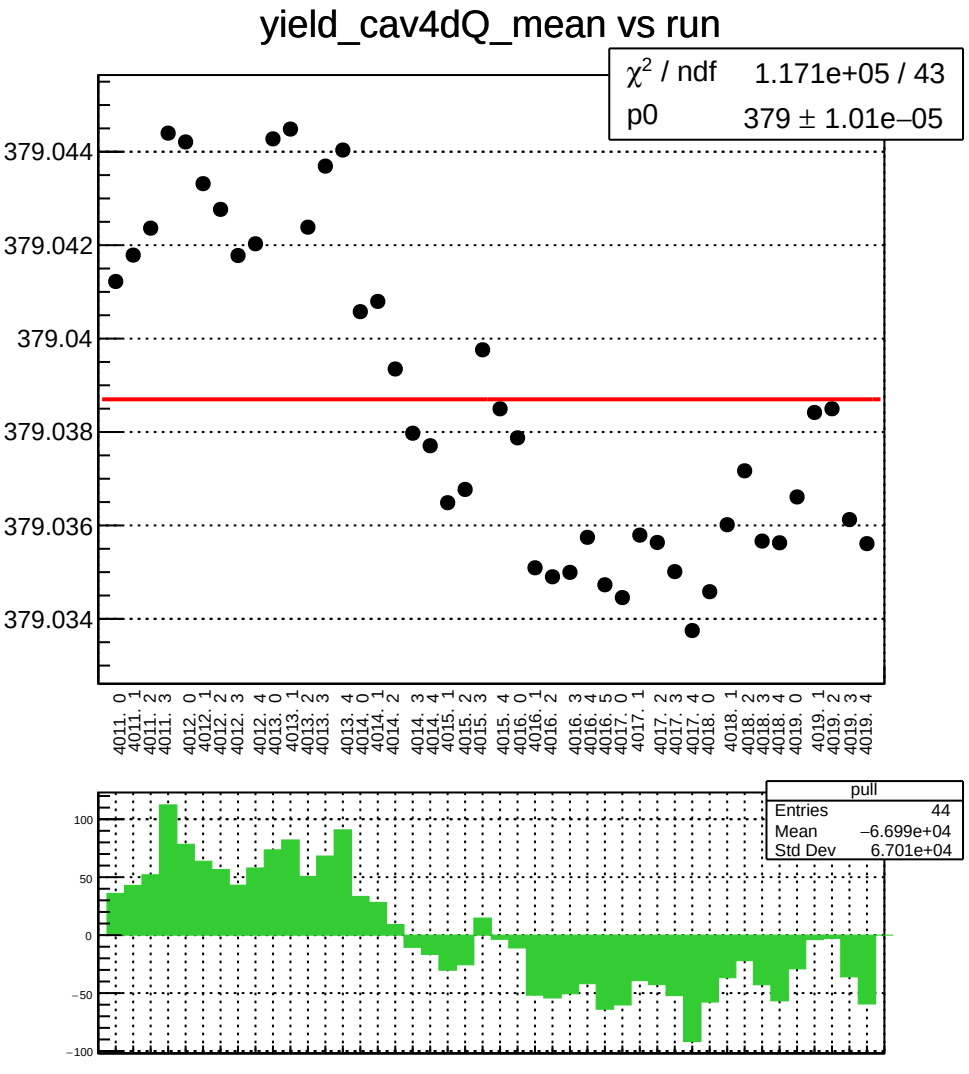

pull1D
Entries 44
Mean 4.454
Std Dev 1.432
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

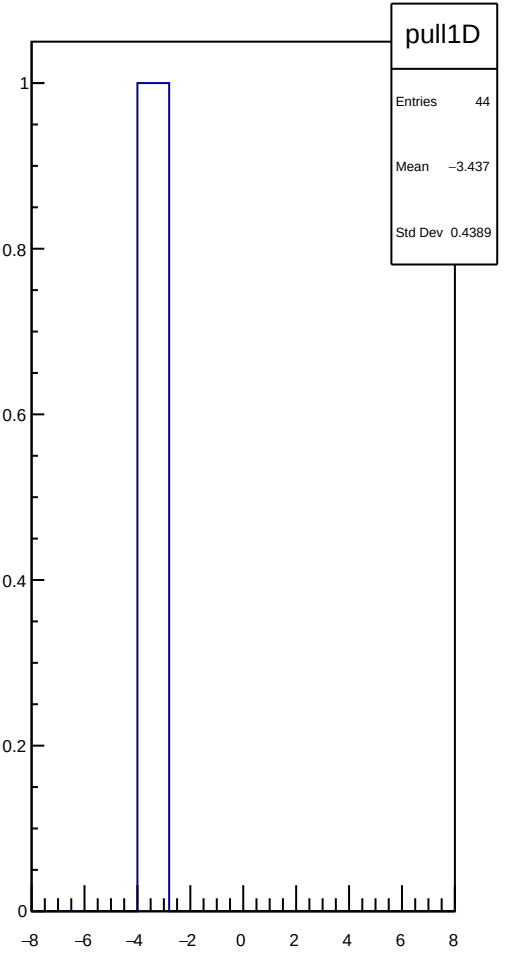

yield_cav4bQ_rms vs run
χ² / ndf 1199 / 43
p0 0.006704 ± 7.018e−06
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

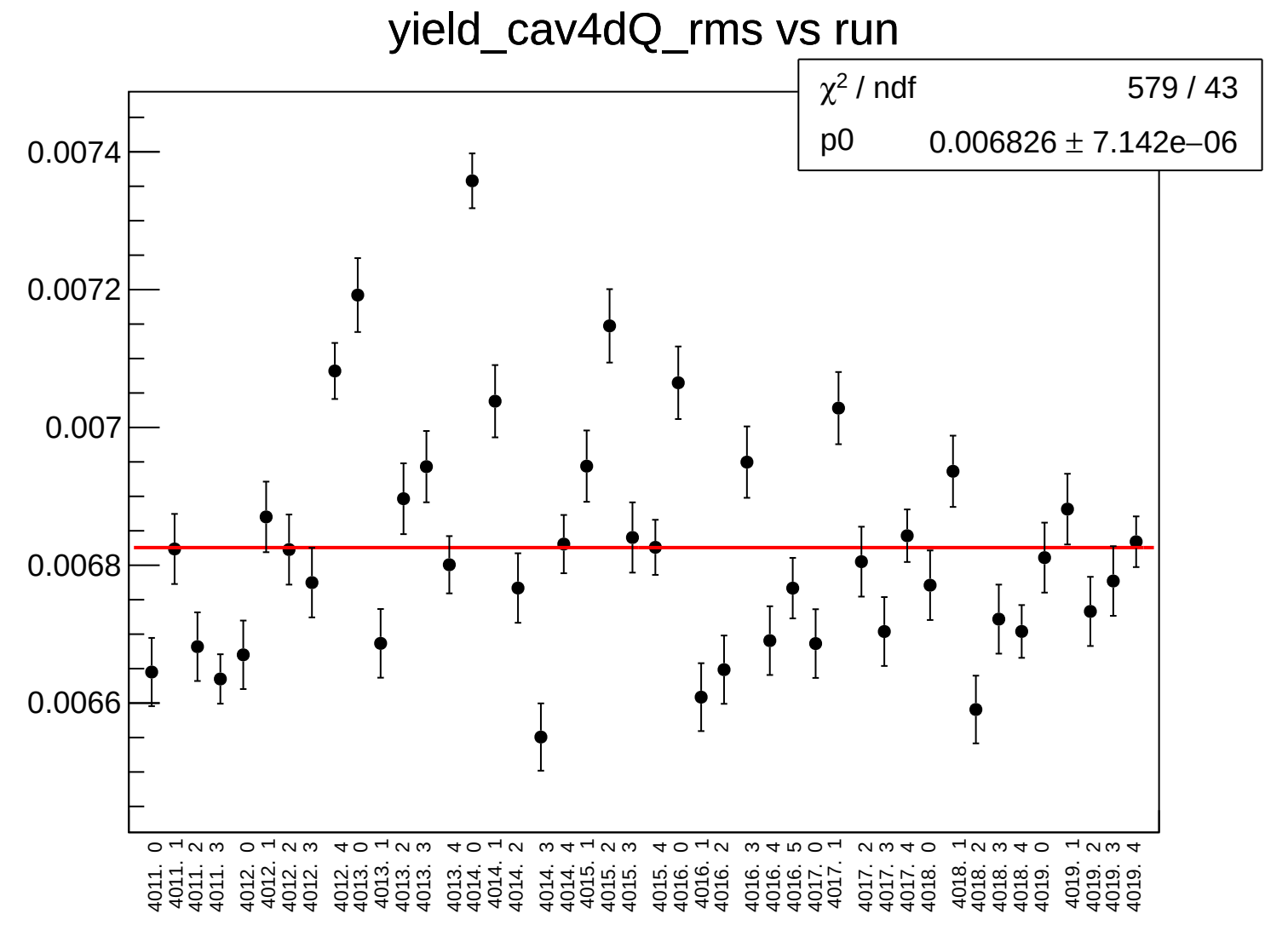

yield_cav4cQ_mean vs run
χ² / ndf 9.187e+05 / 43
p0 70.48 ± 0.000322
71.2
71
70.8
70.6
70.4
70.2
70
69.8
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −182.9
Std Dev 205.1
200
100
0
−100
−200
−300
−400

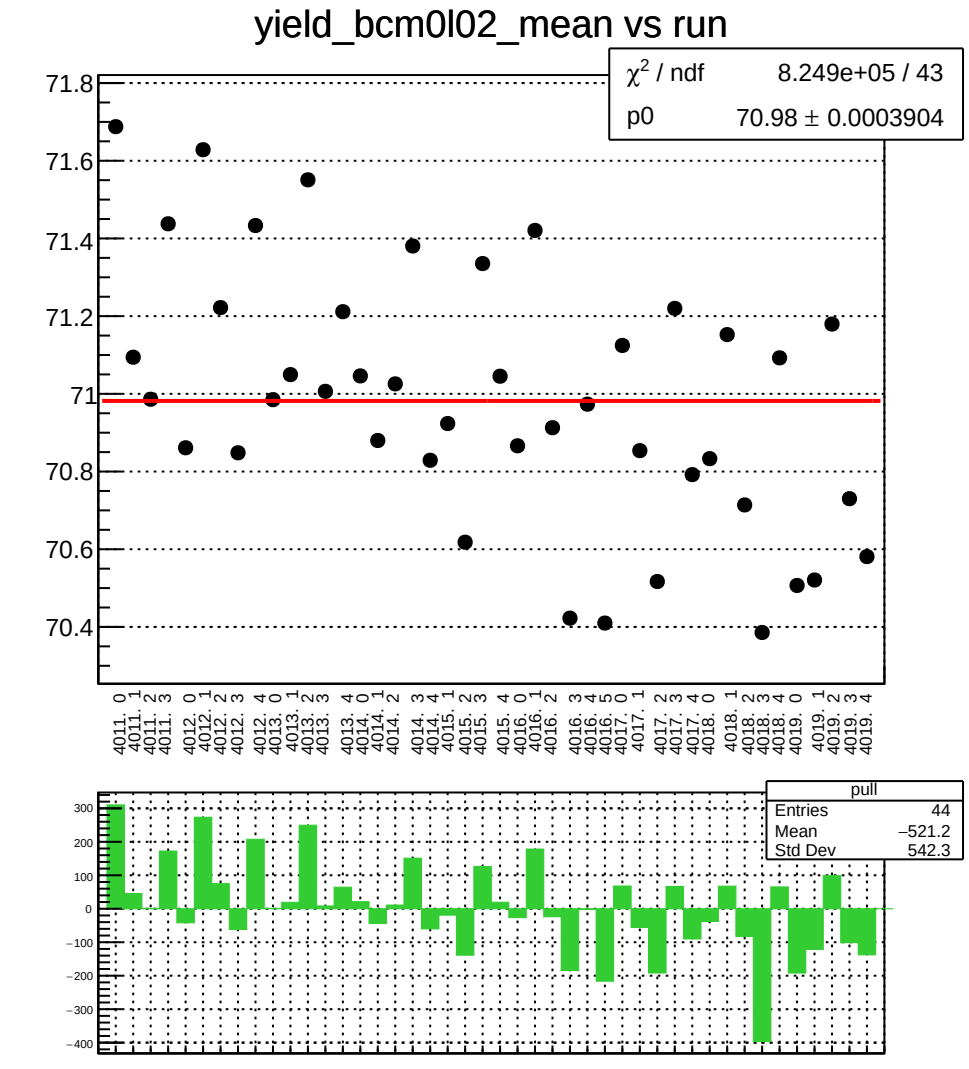

pull1D
Entries 44
Mean −2.125
Std Dev 5.137
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

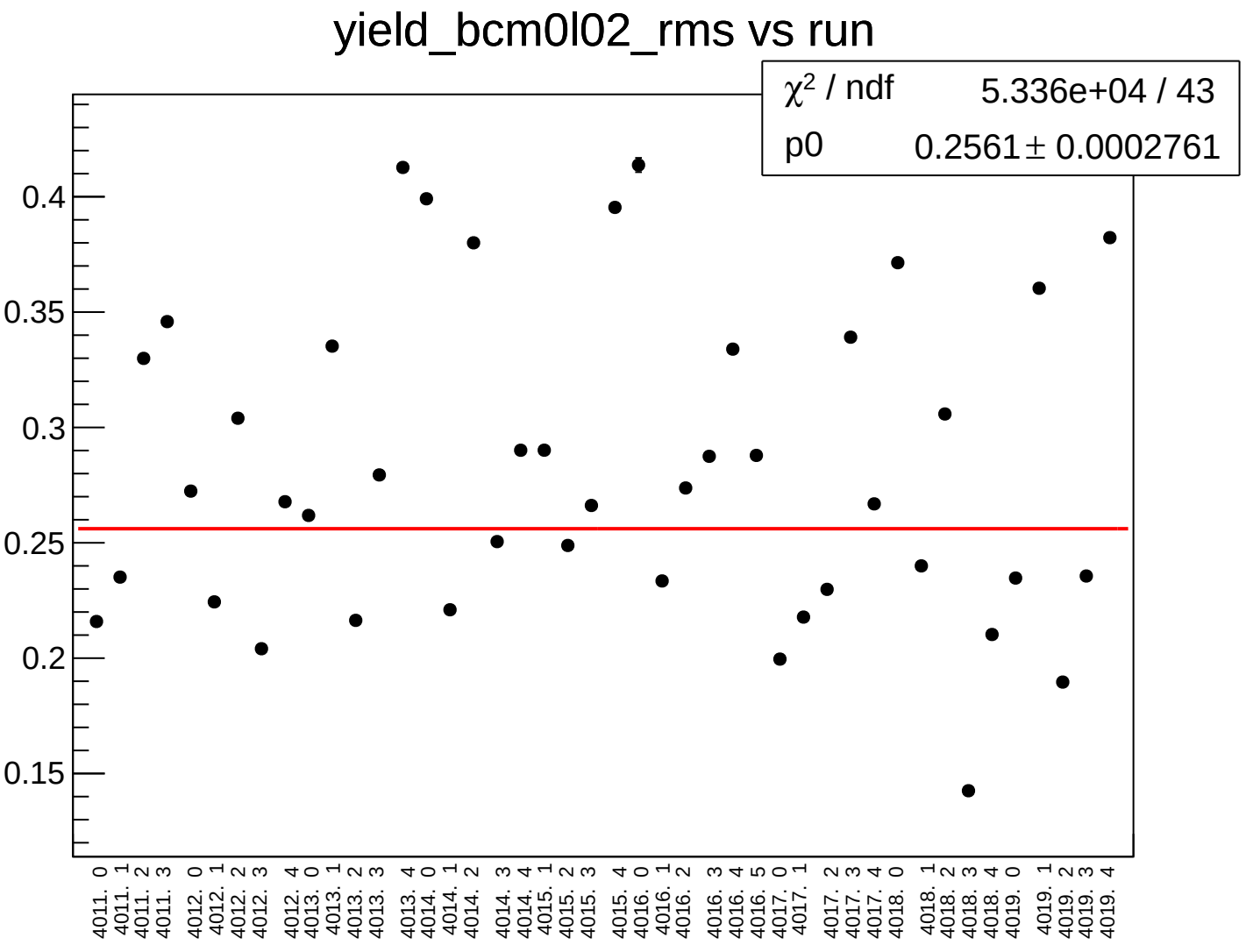

yield_cav4cQ_rms vs run
χ² / ndf 5.529e+04 / 43
p0 0.211 ± 0.0002277
0.45
0.4
0.35
0.3
0.25
0.2
0.15
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

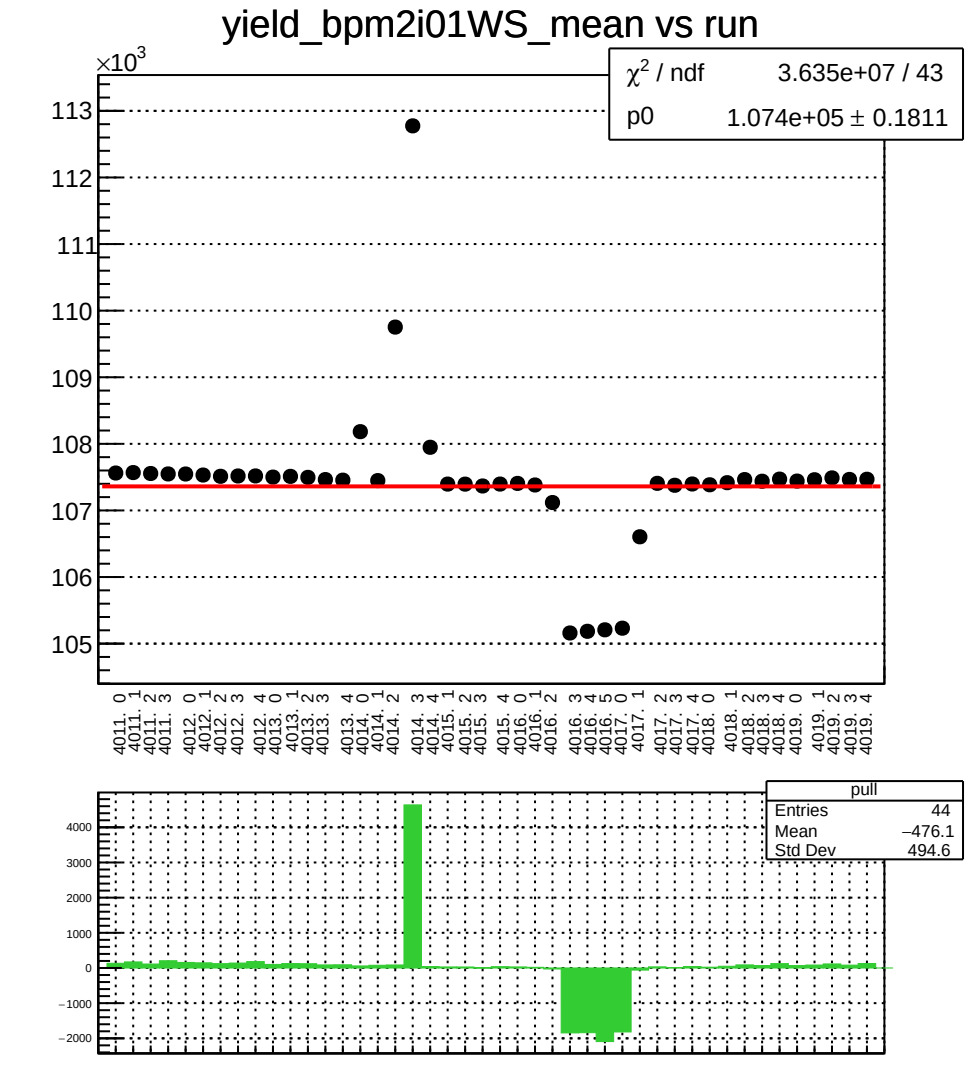

yield_cav4dQ_mean vs run
χ² / ndf 1.171e+05 / 43
p0 379 ± 1.01e−05
379.044
379.042
379.04
379.038
379.036
379.034
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −6.699e+04
Std Dev 6.701e+04
100
50
0
−50
−100

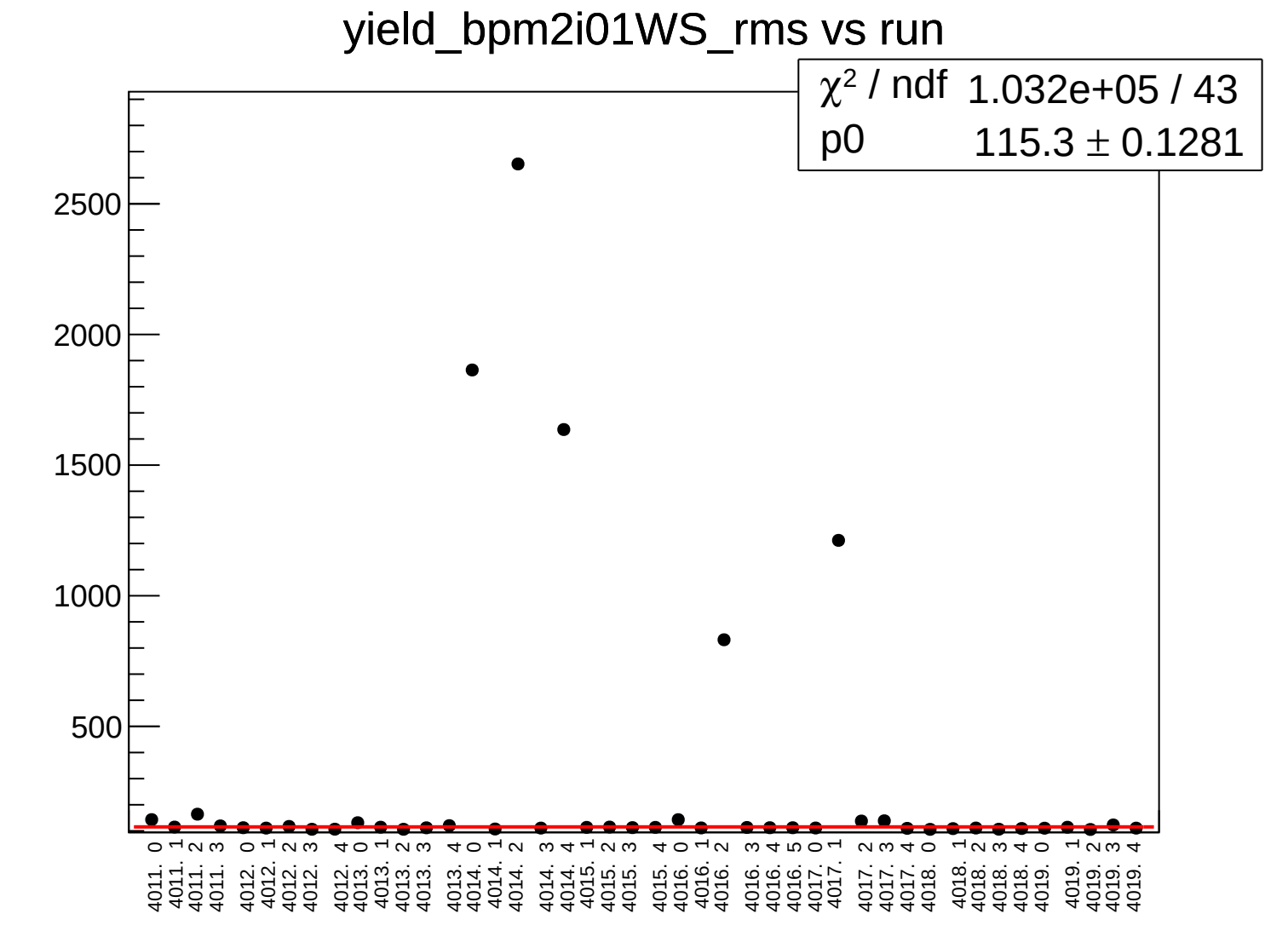

pull1D
Entries 44
Mean −3.437
Std Dev 0.4389
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

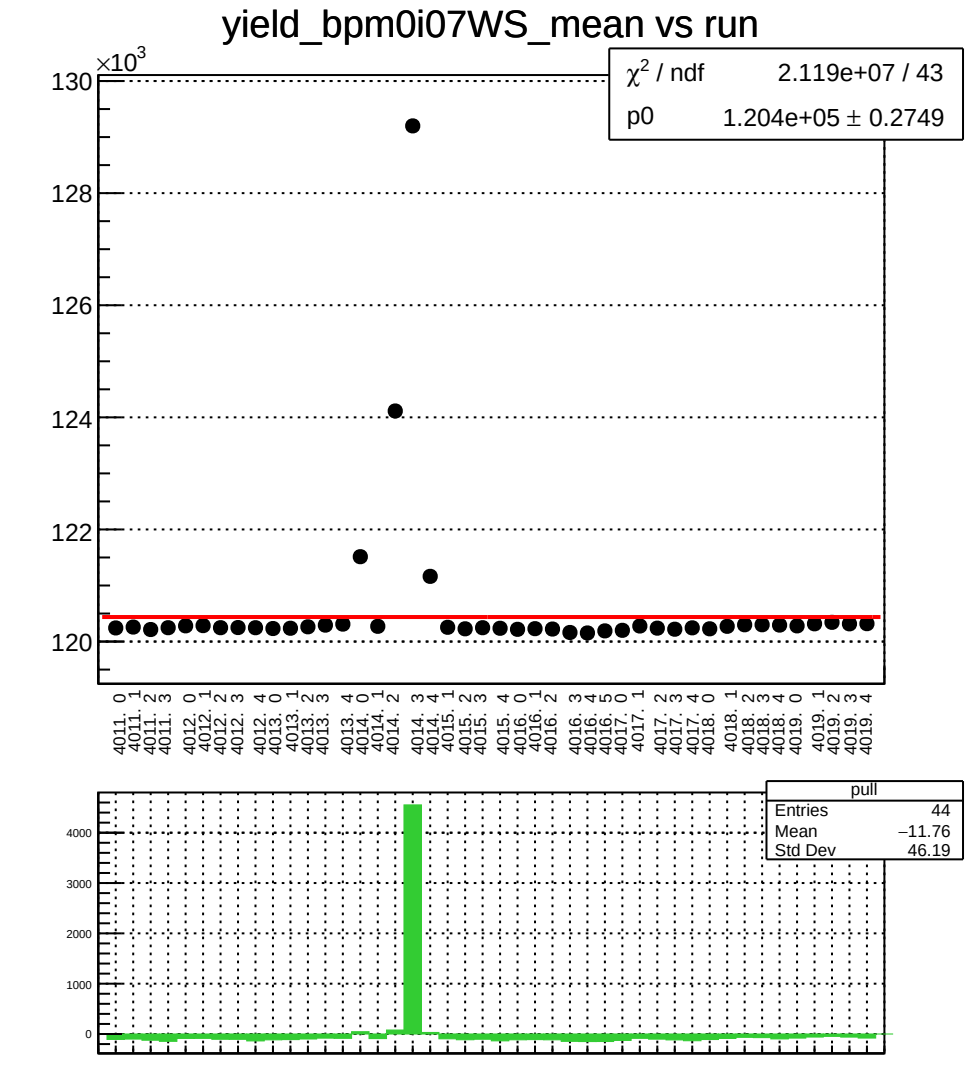

yield_cav4dQ_rms vs run
χ² / ndf 579 / 43
p0 0.006826 ± 7.142e−06
0.0074
0.0072
0.007
0.0068
0.0066
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

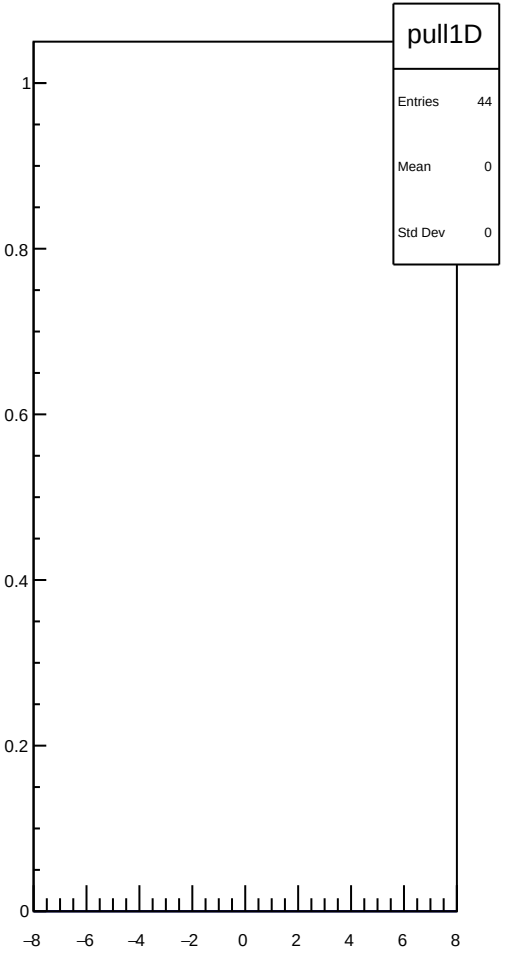

yield_bcm0l02_mean vs run
χ² / ndf 8.249e+05 / 43
p0 70.98 ± 0.0003904
71.8
71.6
71.4
71.2
71
70.8
70.6
70.4
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −521.2
Std Dev 542.3
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 44
Mean 0.01144
Std Dev 1.686
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

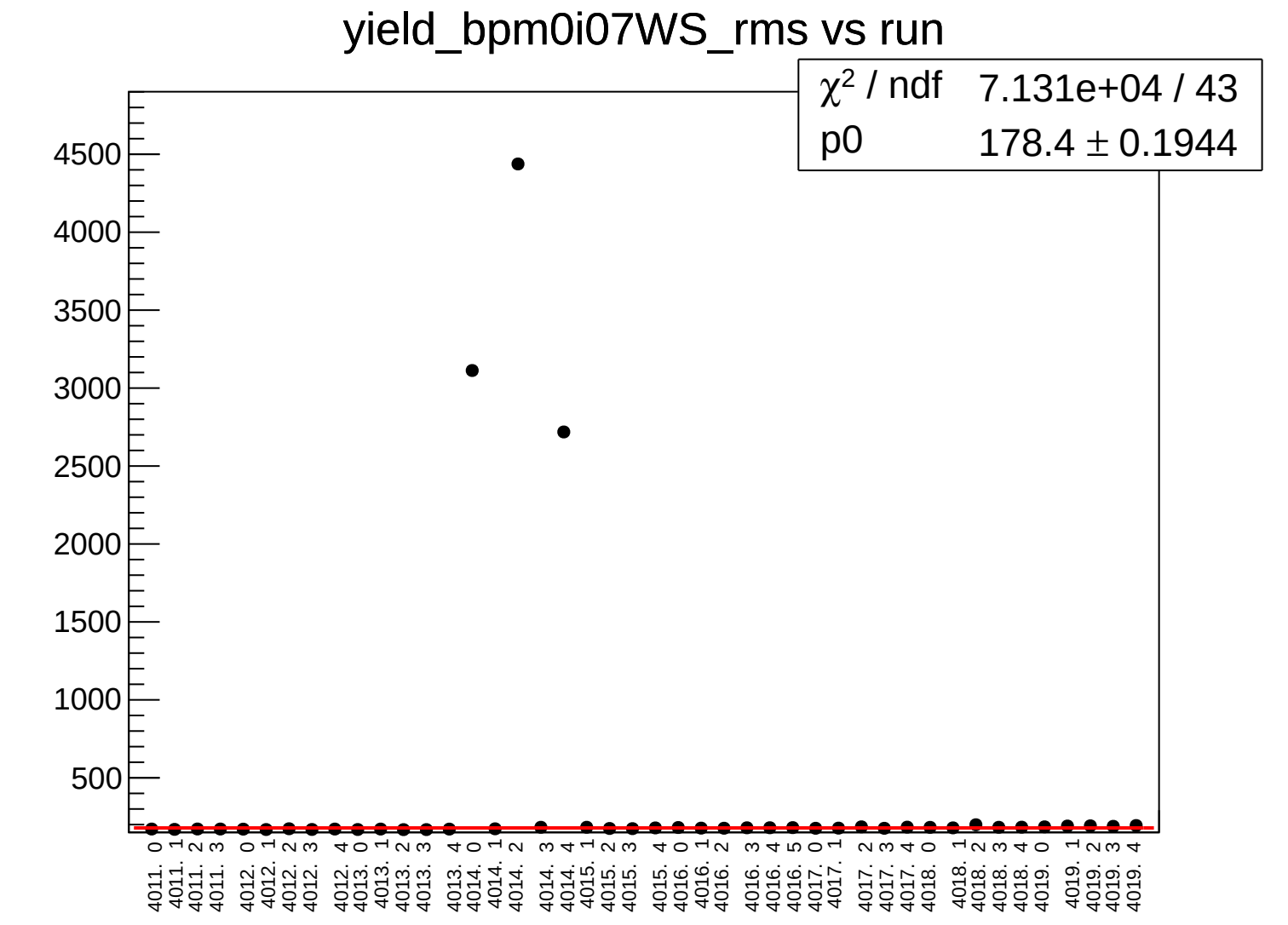

yield_bcm0l02_rms vs run
χ² / ndf 5.336e+04 / 43
p0 0.2561 ± 0.0002761
0.4
0.35
0.3
0.25
0.2
0.15
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

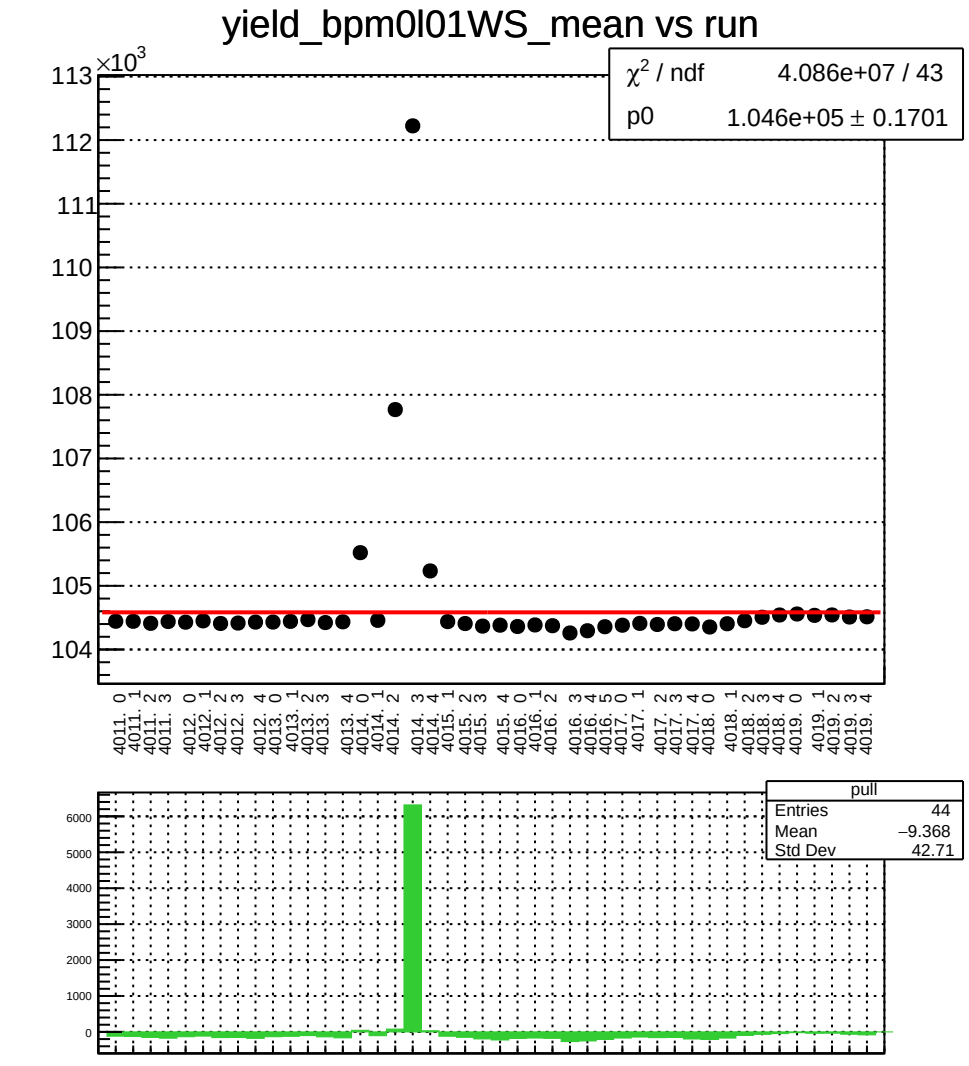

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3.635e+07 / 43
p0 1.074e+05 ± 0.1811
113
112
111
110
109
108
107
106
105
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −476.1
Std Dev 494.6
4000
3000
2000
1000
0
−1000
−2000
pull1D
Entries 44
Mean 5.25
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

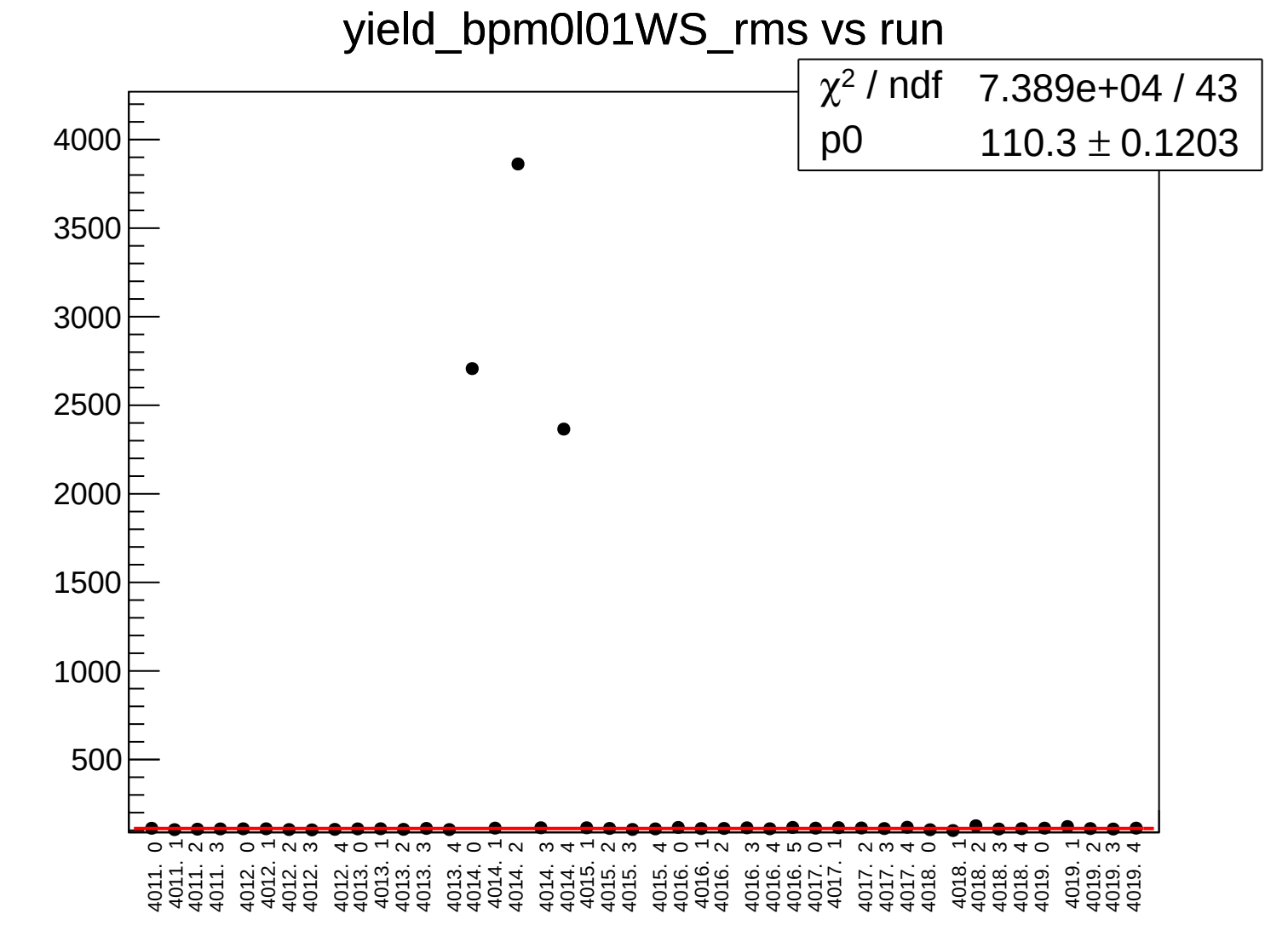

yield_bpm2i01WS_rms vs run
χ² / ndf 1.032e+05 / 43
p0 115.3 ± 0.1281
2500
2000
1500
1000
500
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

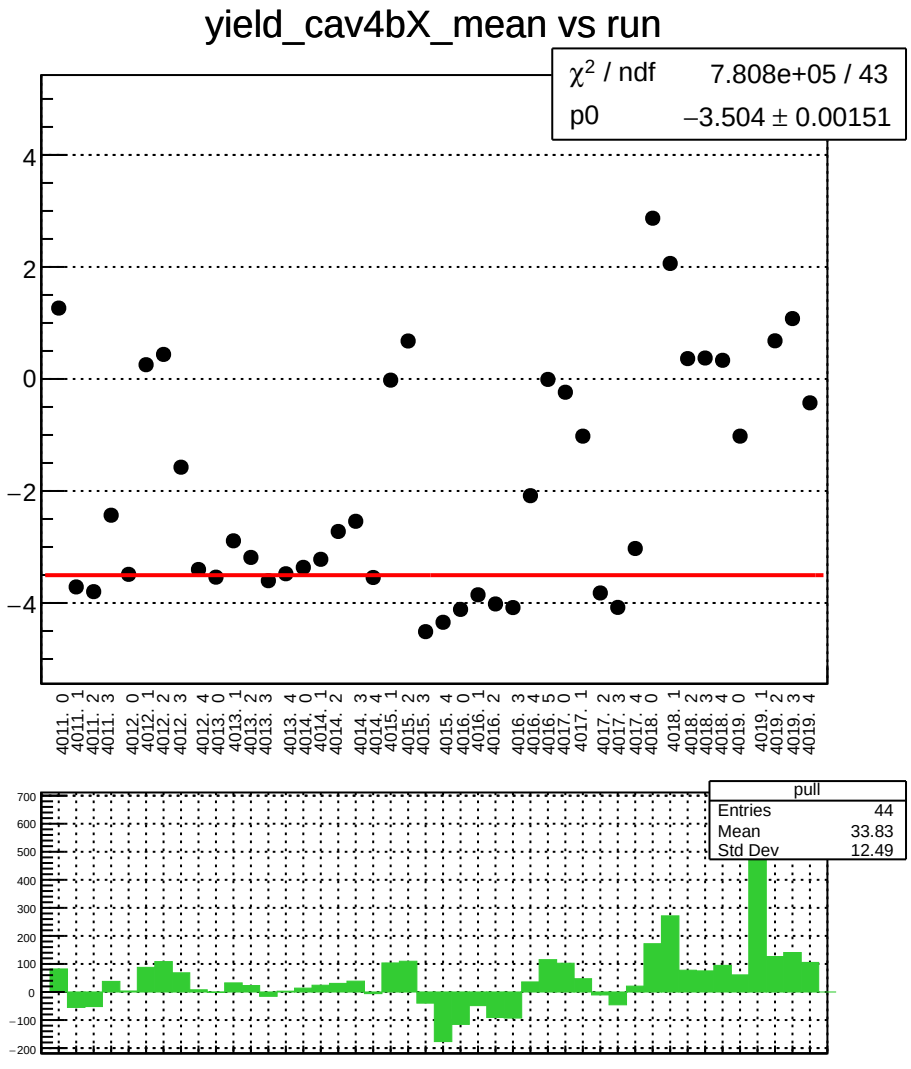

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 2.119e+07 / 43
p0 1.204e+05 ± 0.2749
130
128
126
124
122
120
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −11.76
Std Dev 46.19
4000
3000
2000
1000
0

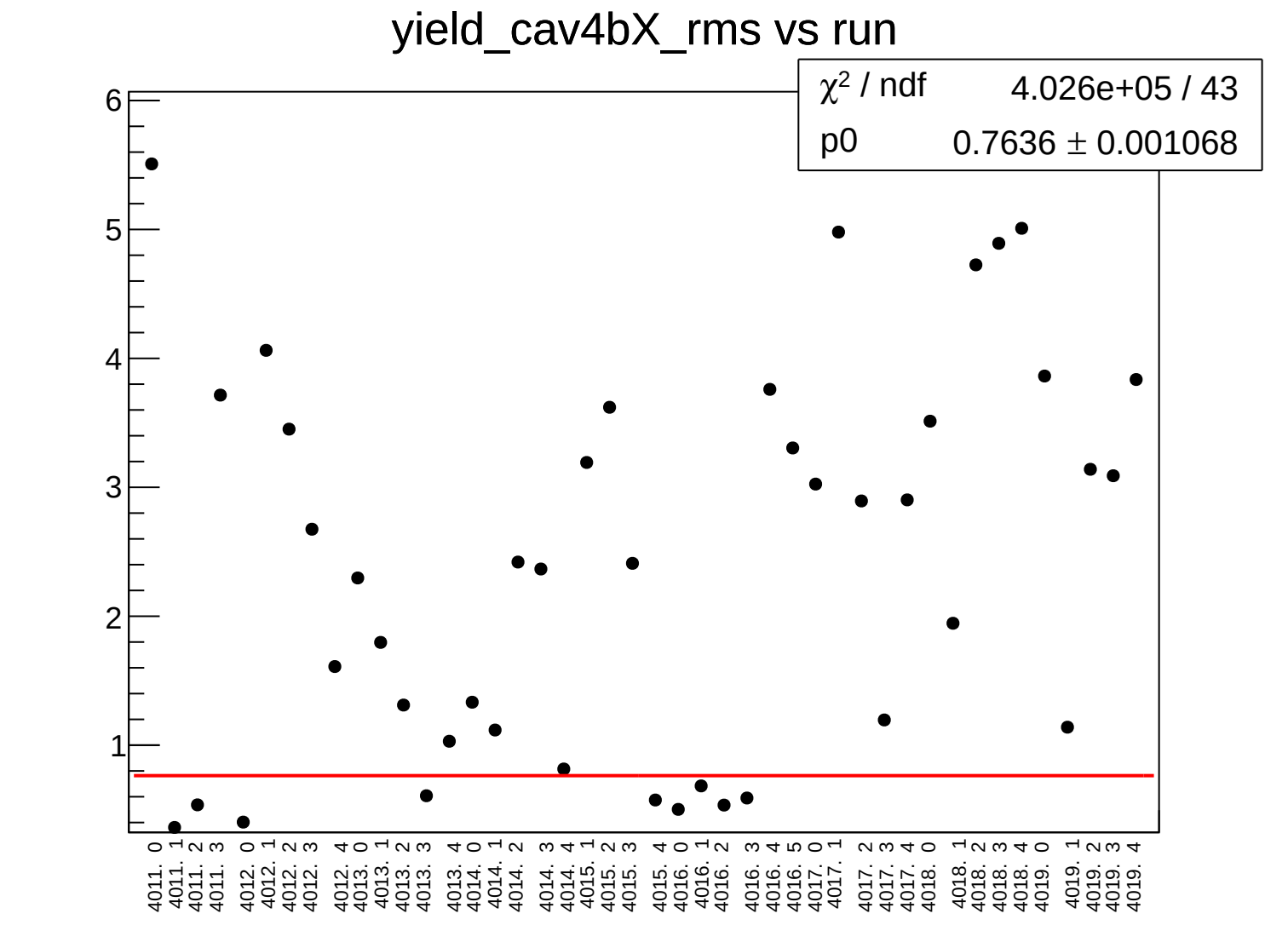

pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

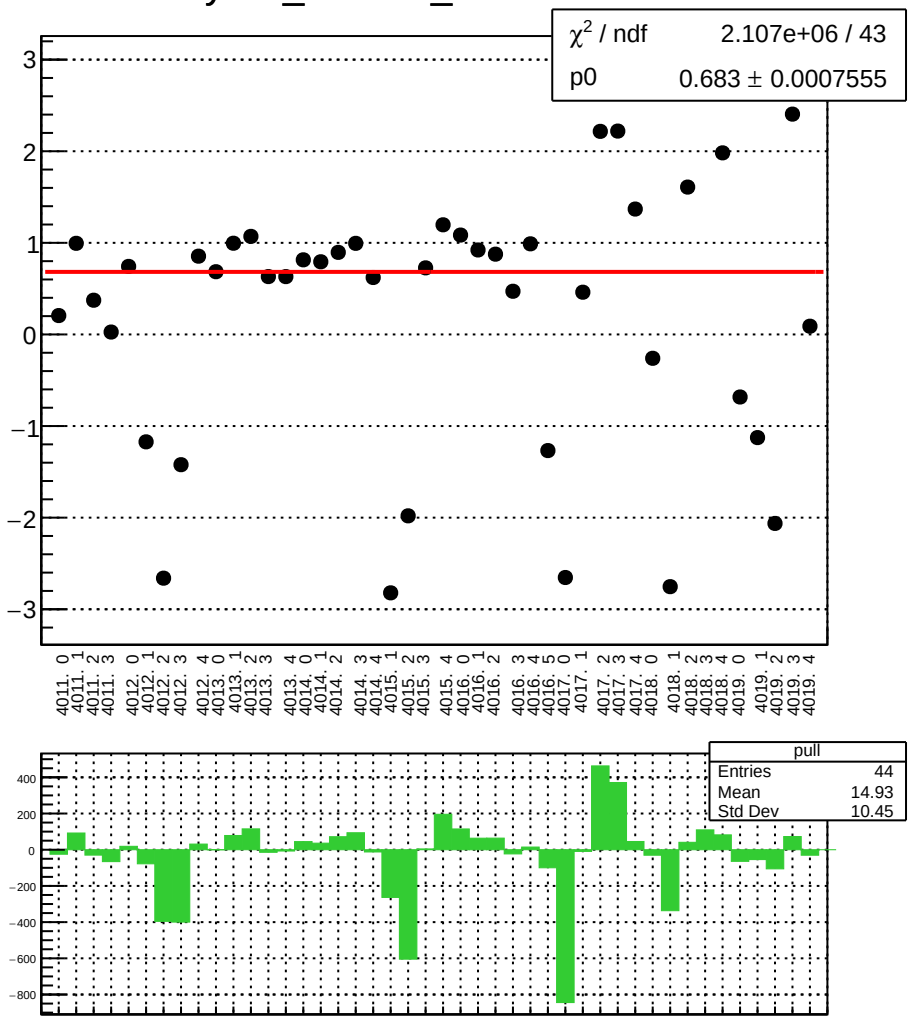

yield_bpm0i07WS_rms vs run
χ² / ndf 7.131e+04 / 43
p0 178.4 ± 0.1944
4500
4000
3500
3000
2500
2000
1500
1000
500
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

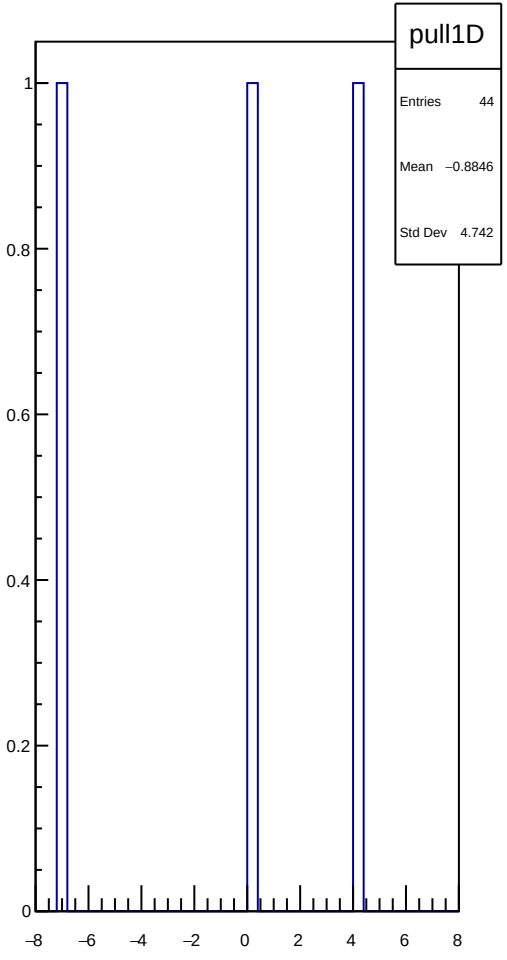

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 4.086e+07 / 43
p0 1.046e+05 ± 0.1701
113
112
111
110
109
108
107
106
105
104
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean –9.368
Std Dev 42.71
6000
5000
4000
3000
2000
1000
0
pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

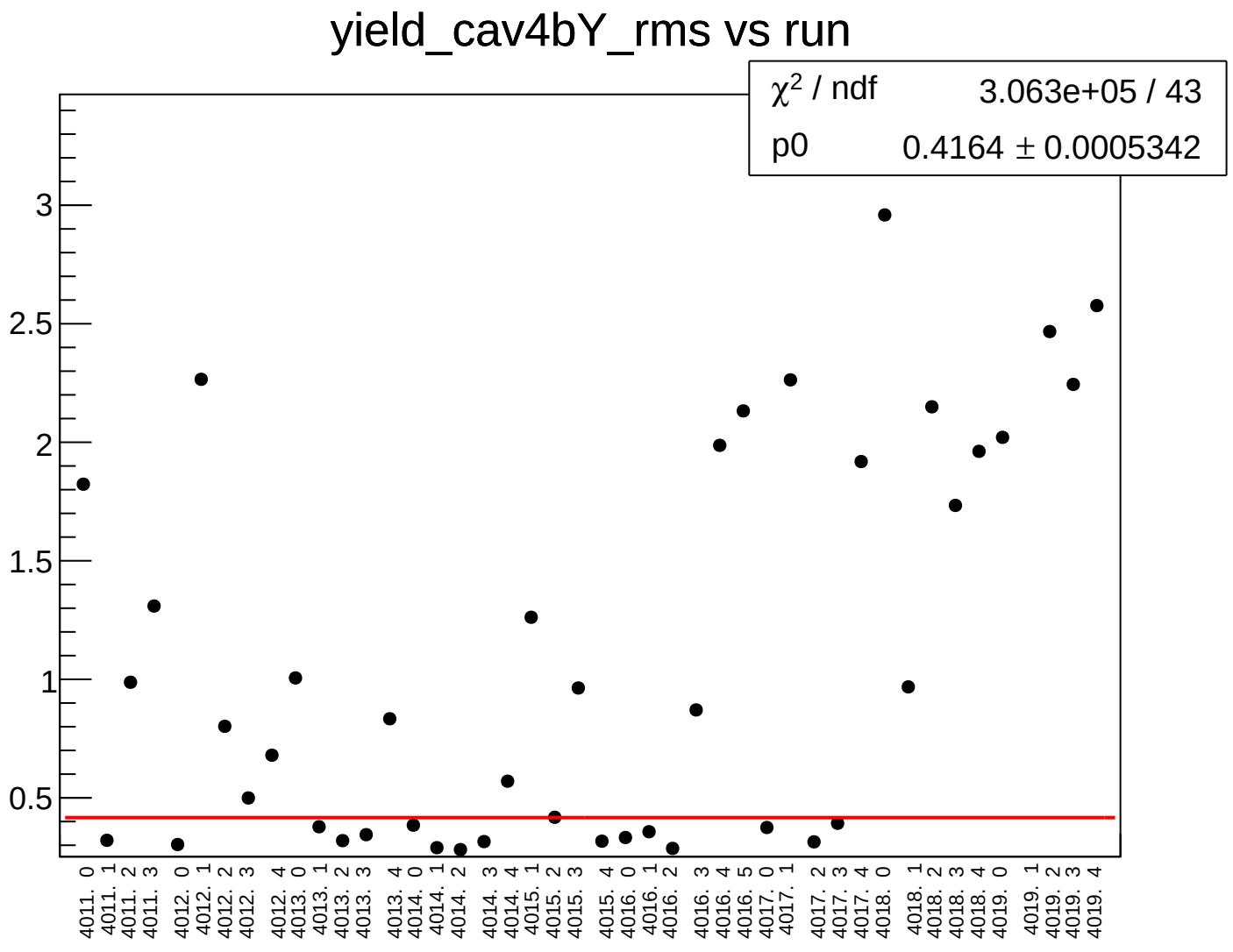

yield_bpm0l01WS_rms vs run
χ² / ndf 7.389e+04 / 43
p0 110.3 ± 0.1203
4000
3500
3000
2500
2000
1500
1000
500
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

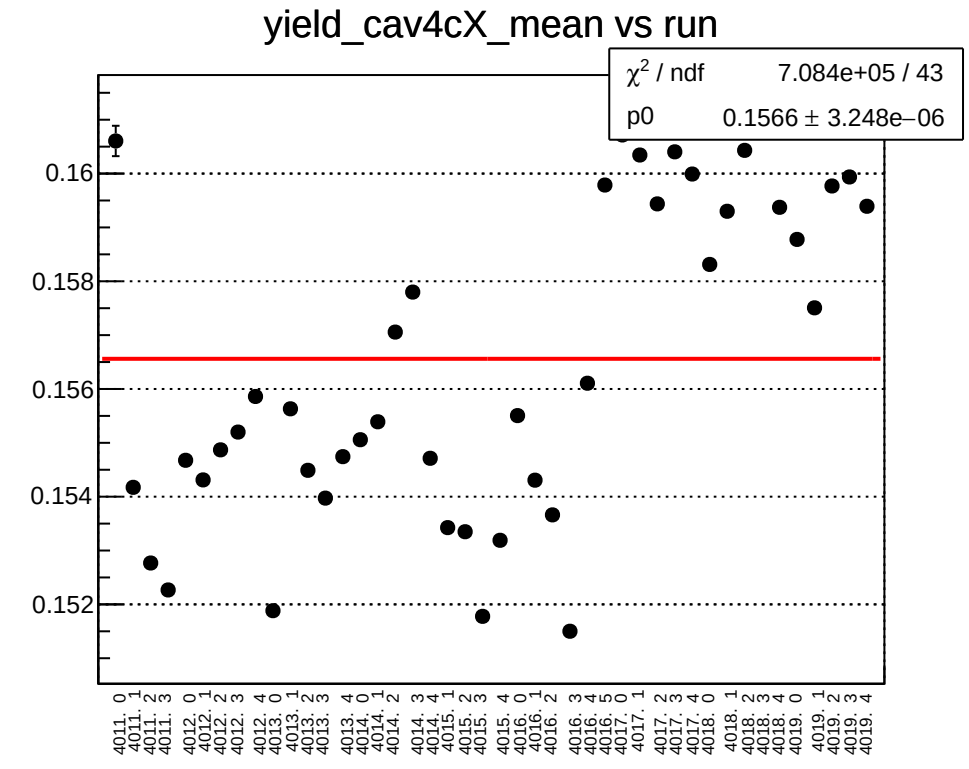

yield_cav4bX_mean vs run
χ² / ndf 7.808e+05 / 43
p0 −3.504 ± 0.00151
4
2
0
−2
−4
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 33.83
Std Dev 12.49
700
600
500
400
300
200
100
0
−100
−200
pull1D
Entries 44
Mean 1.393
Std Dev 4.623
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

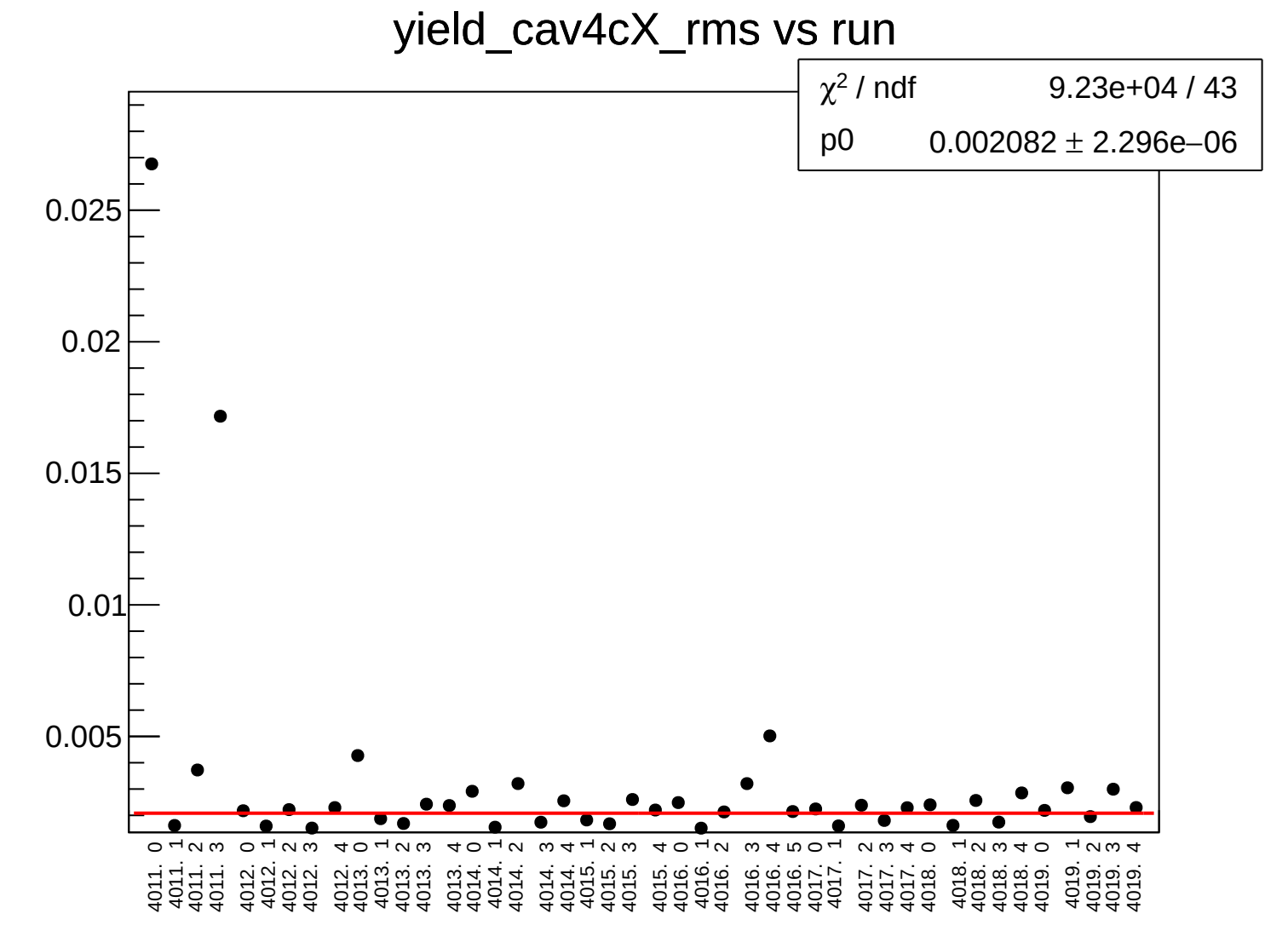

yield_cav4bX_rms vs run
χ² / ndf 4.026e+05 / 43
p0 0.7636 ± 0.001068
6
5
4
3
2
1
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

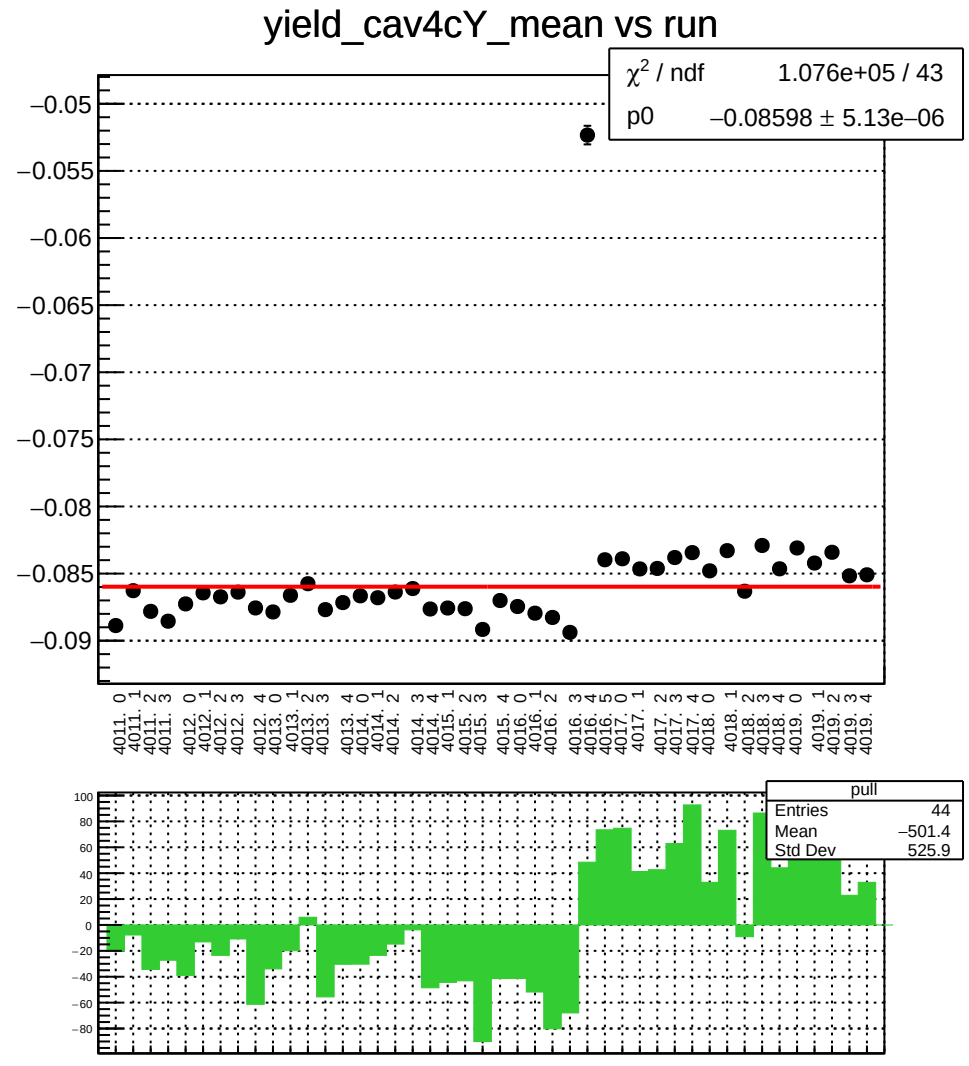

yield_cav4bY_mean vs run
χ² / ndf 2.107e+06 / 43
p0 0.683 ± 0.0007555
pull
Entries 44
Mean 14.93
Std Dev 10.45

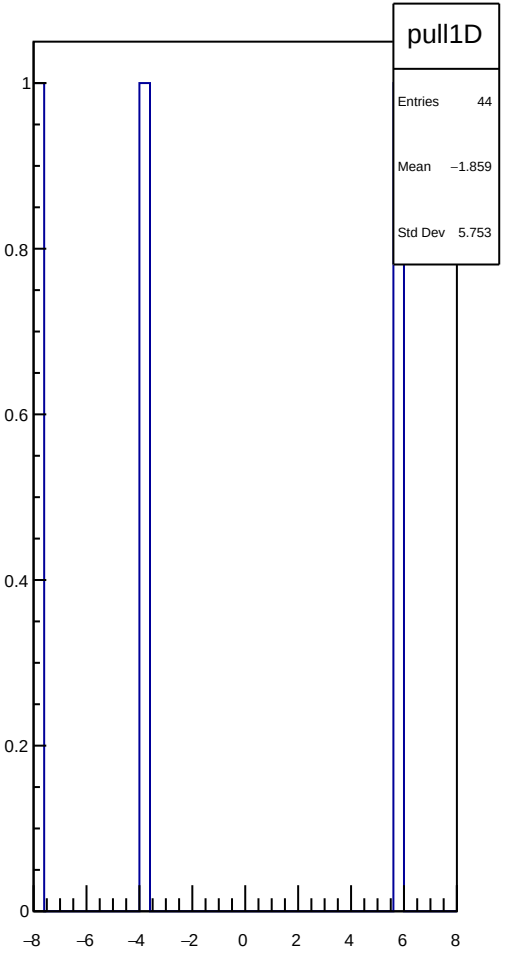

pull1D
Entries 44
Mean −0.8846
Std Dev 4.742

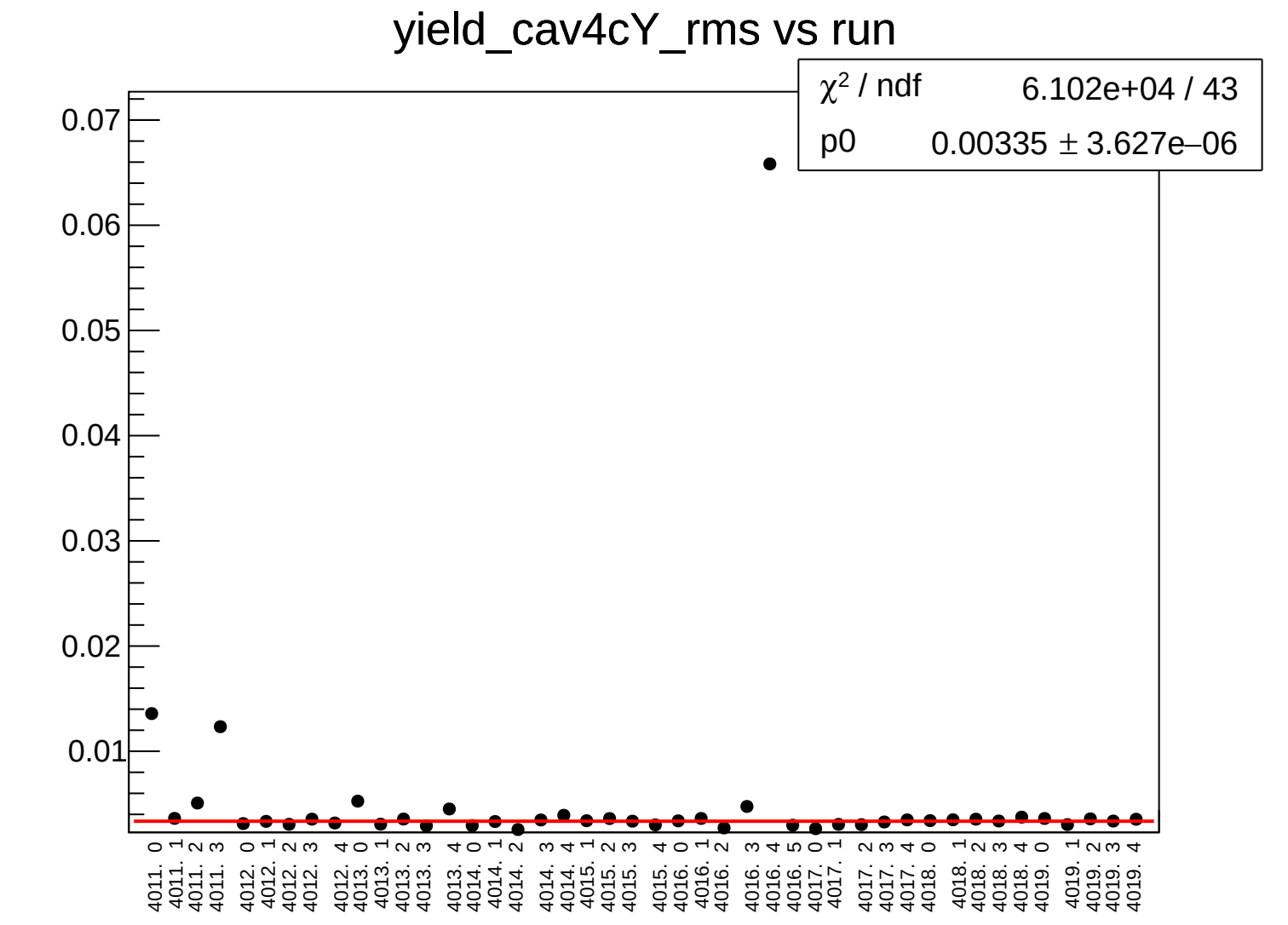

yield_cav4bY_rms vs run
χ² / ndf 3.063e+05 / 43
p0 0.4164 ± 0.0005342
3
2.5
2
1.5
1
0.5
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

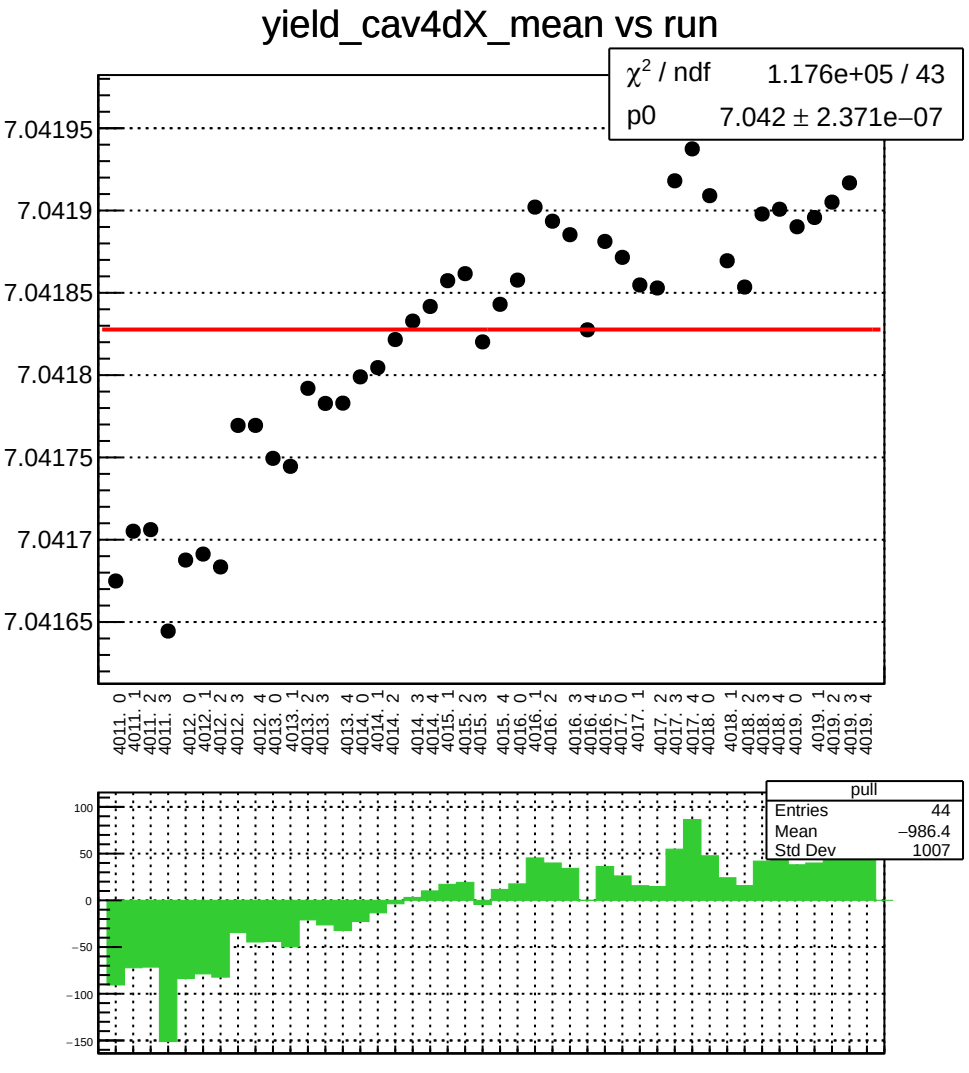

yield_cav4cX_mean vs run
χ² / ndf 7.084e+05 / 43
p0 0.1566 ± 3.248e−06
0.16
0.158
0.156
0.154
0.152
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −510.8
Std Dev 534.9
250
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

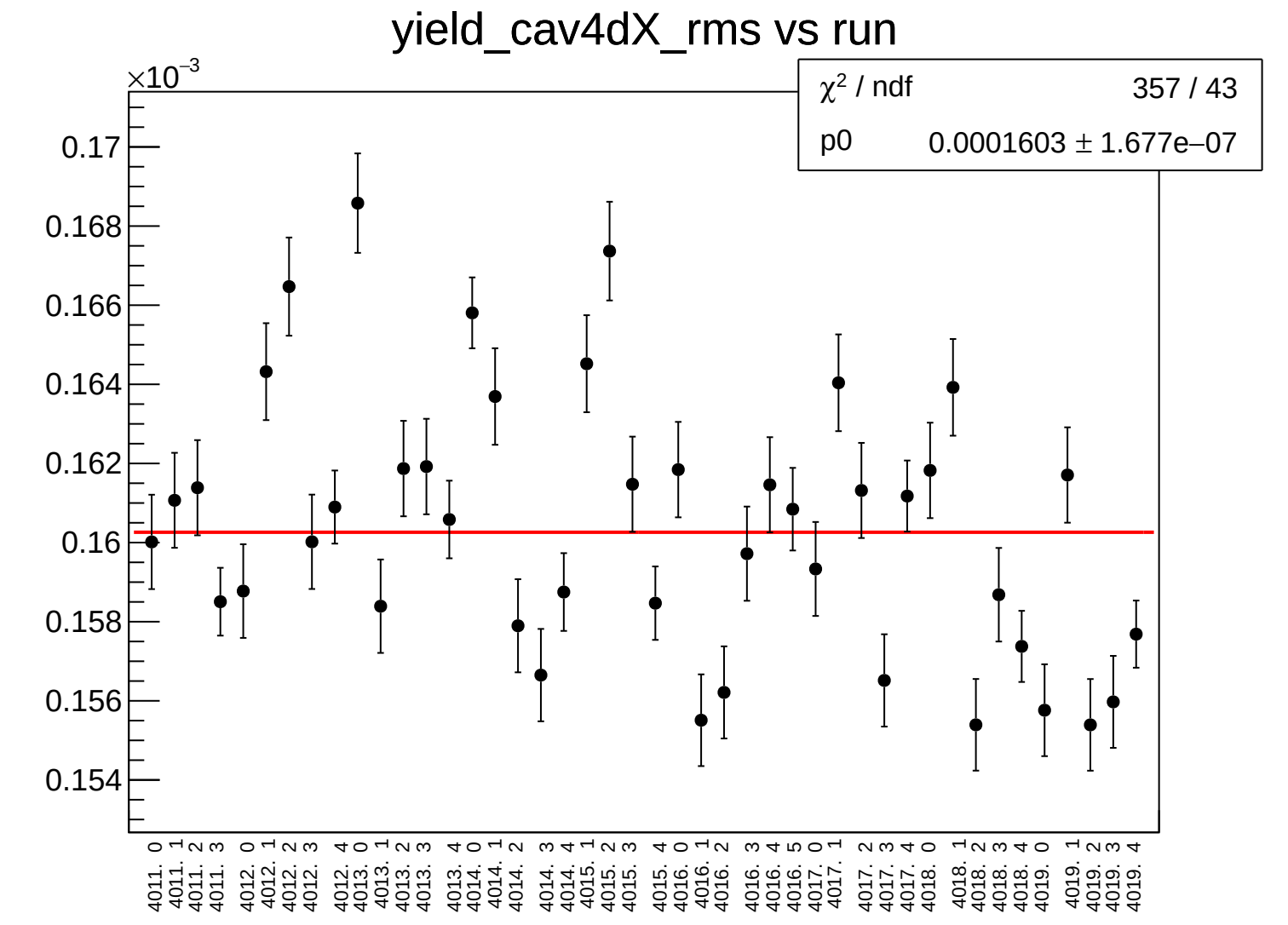

yield_cav4cX_rms vs run
χ² / ndf 9.23e+04 / 43
p0 0.002082 ± 2.296e−06
0.025
0.02
0.015
0.01
0.005
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

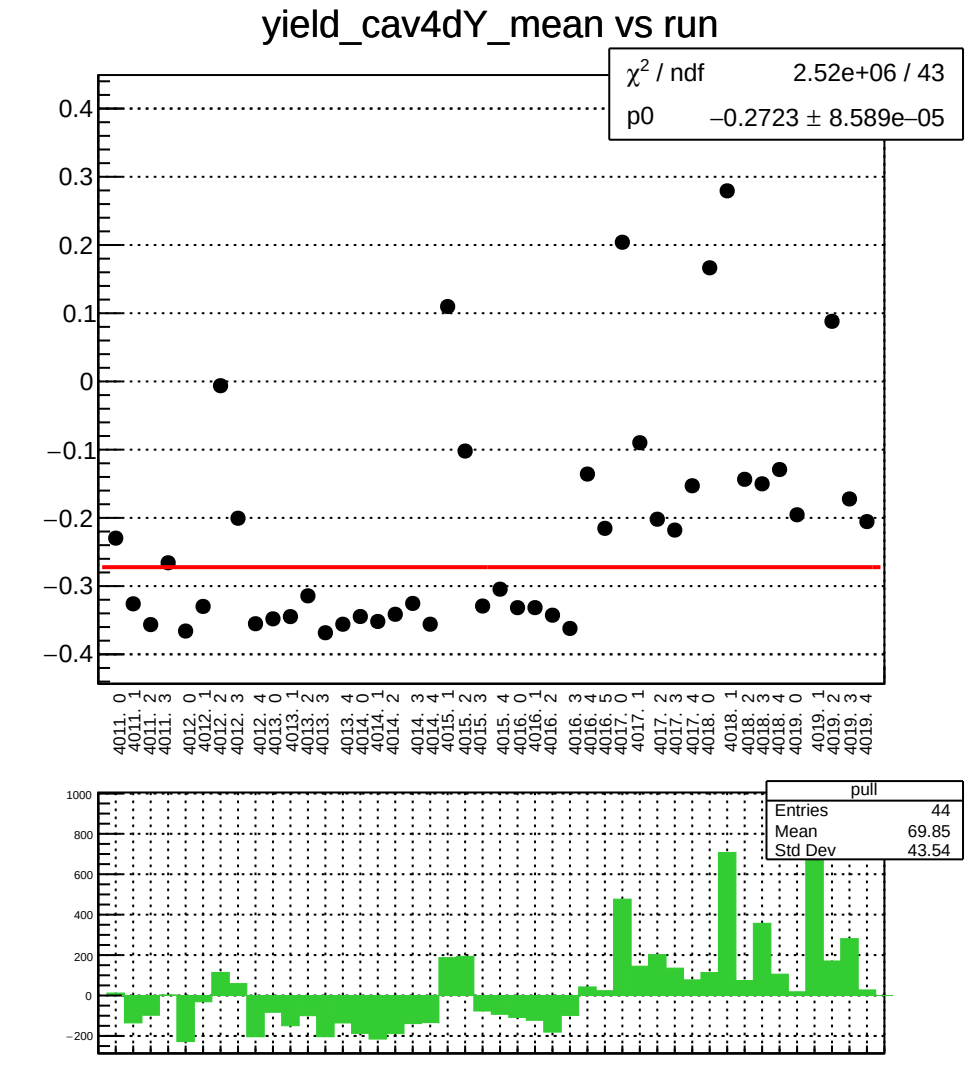

yield_cav4cY_mean vs run
χ² / ndf 1.076e+05 / 43
p0 −0.08598 ± 5.13e−06
pull
Entries 44
Mean −501.4
Std Dev 525.9

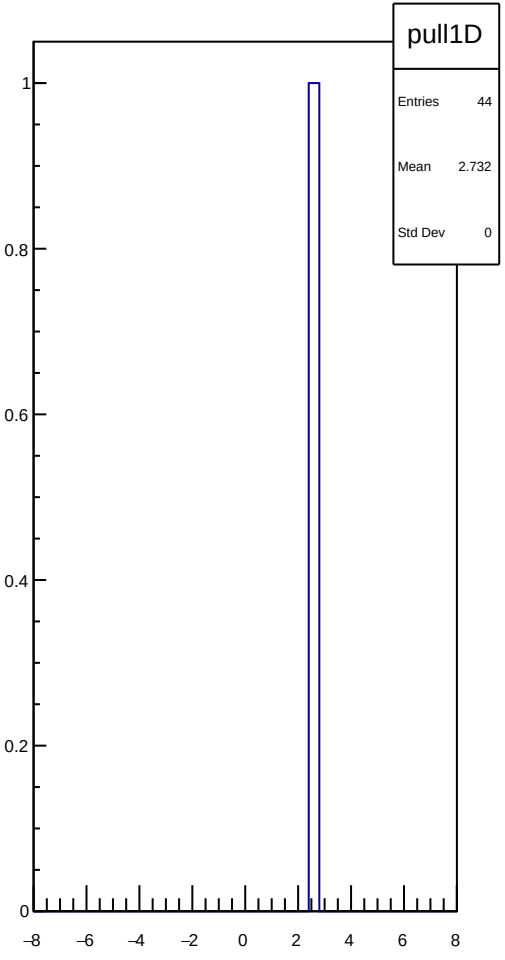

pull1D
Entries 44
Mean −1.859
Std Dev 5.753

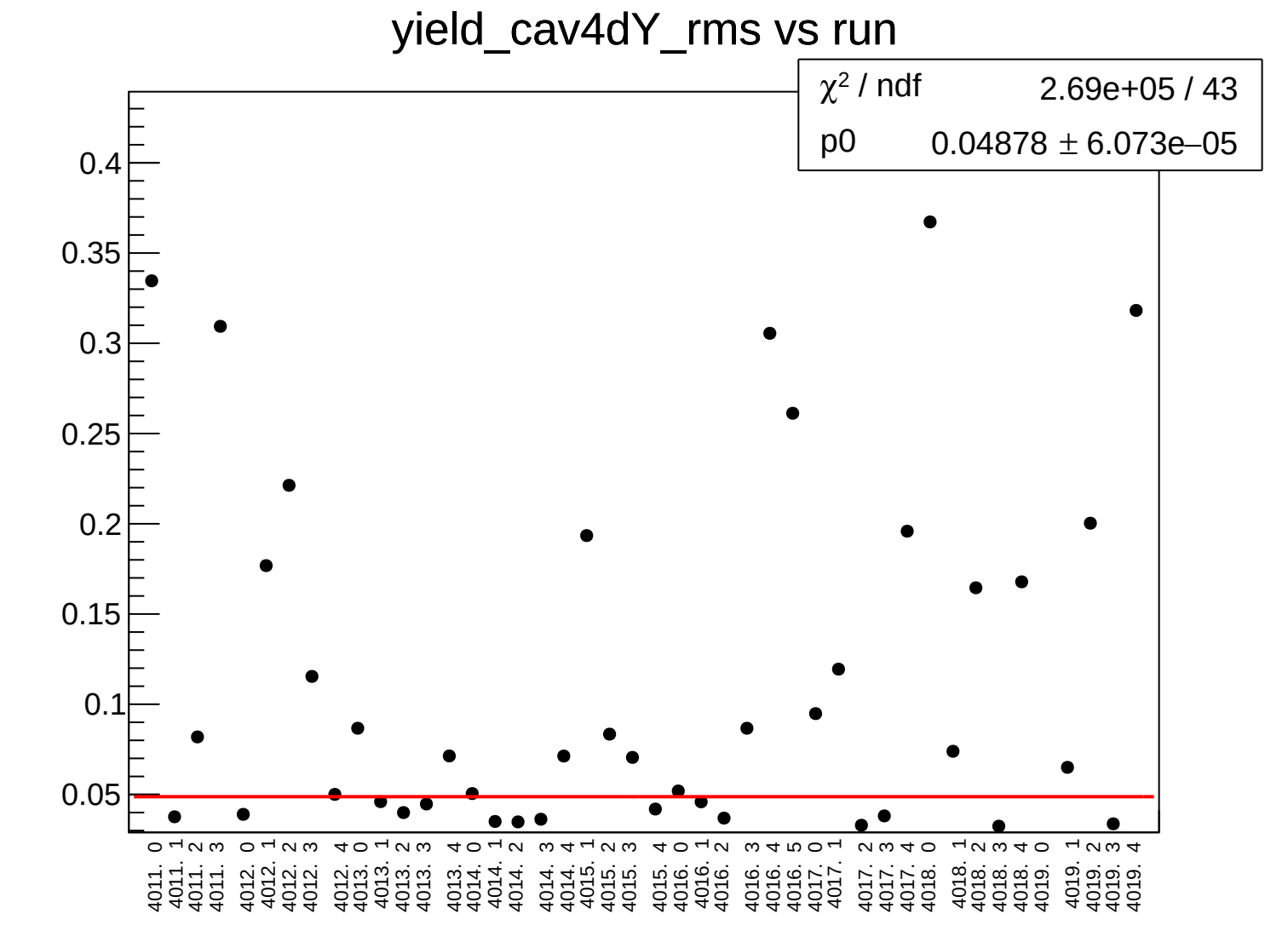

yield_cav4cY_rms vs run
χ² / ndf 6.102e+04 / 43
p0 0.00335 ± 3.627e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

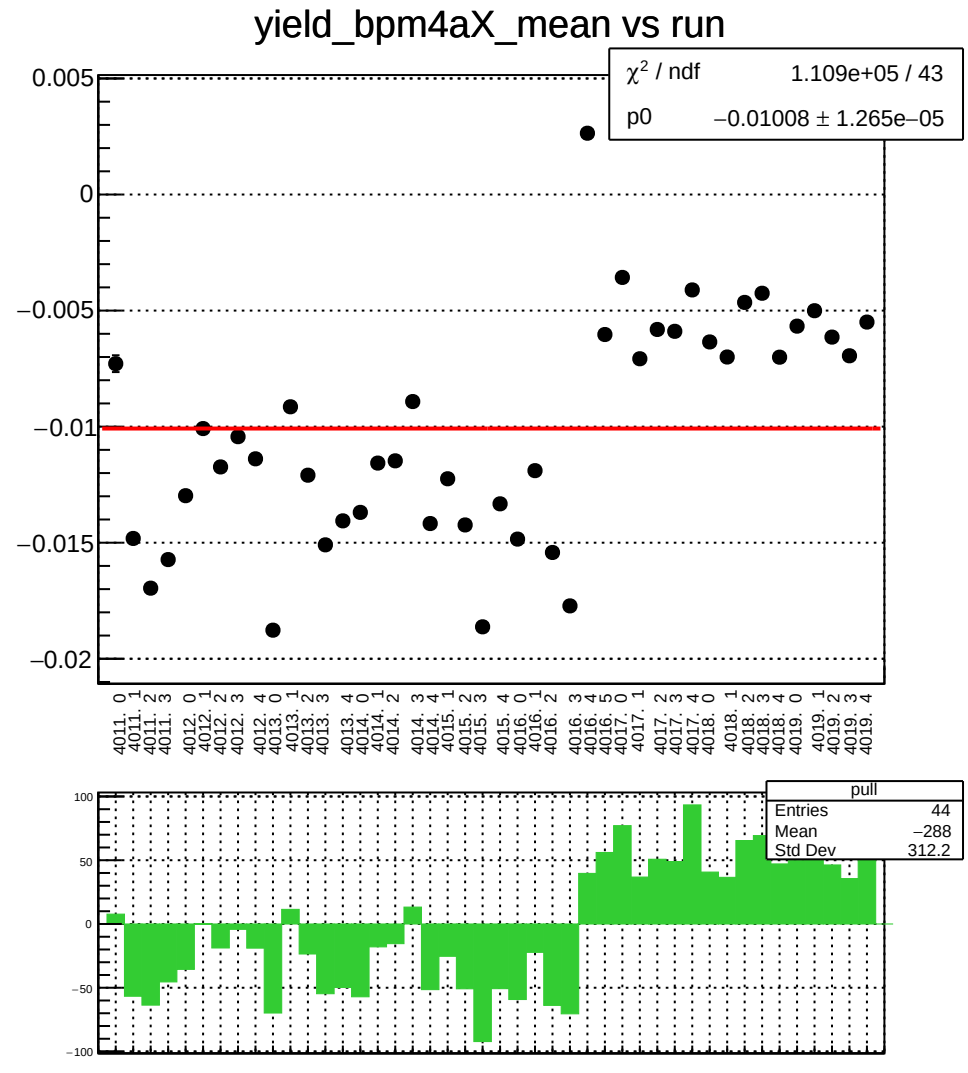

yield_cav4dX_mean vs run
χ² / ndf 1.176e+05 / 43
p0 7.042 ± 2.371e−07
7.04195
7.0419
7.04185
7.0418
7.04175
7.0417
7.04165
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −986.4
Std Dev 1007
100
50
0
−50
−100
−150
pull1D
Entries 44
Mean −1.269
Std Dev 3.003
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

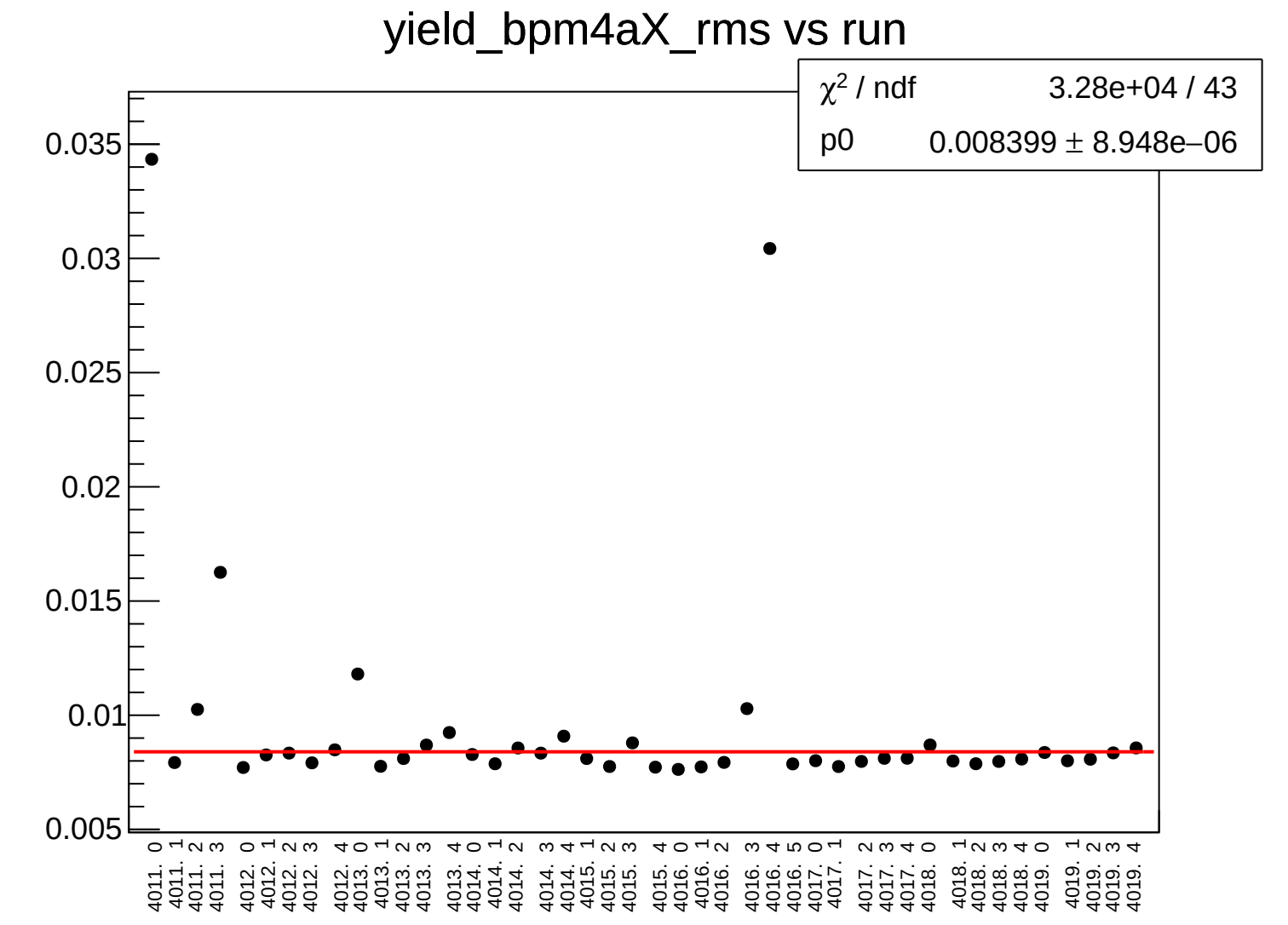

yield_cav4dX_rms vs run
×10⁻³
χ² / ndf 357 / 43
p0 0.0001603 ± 1.677e−07
0.17
0.168
0.166
0.164
0.162
0.16
0.158
0.156
0.154
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

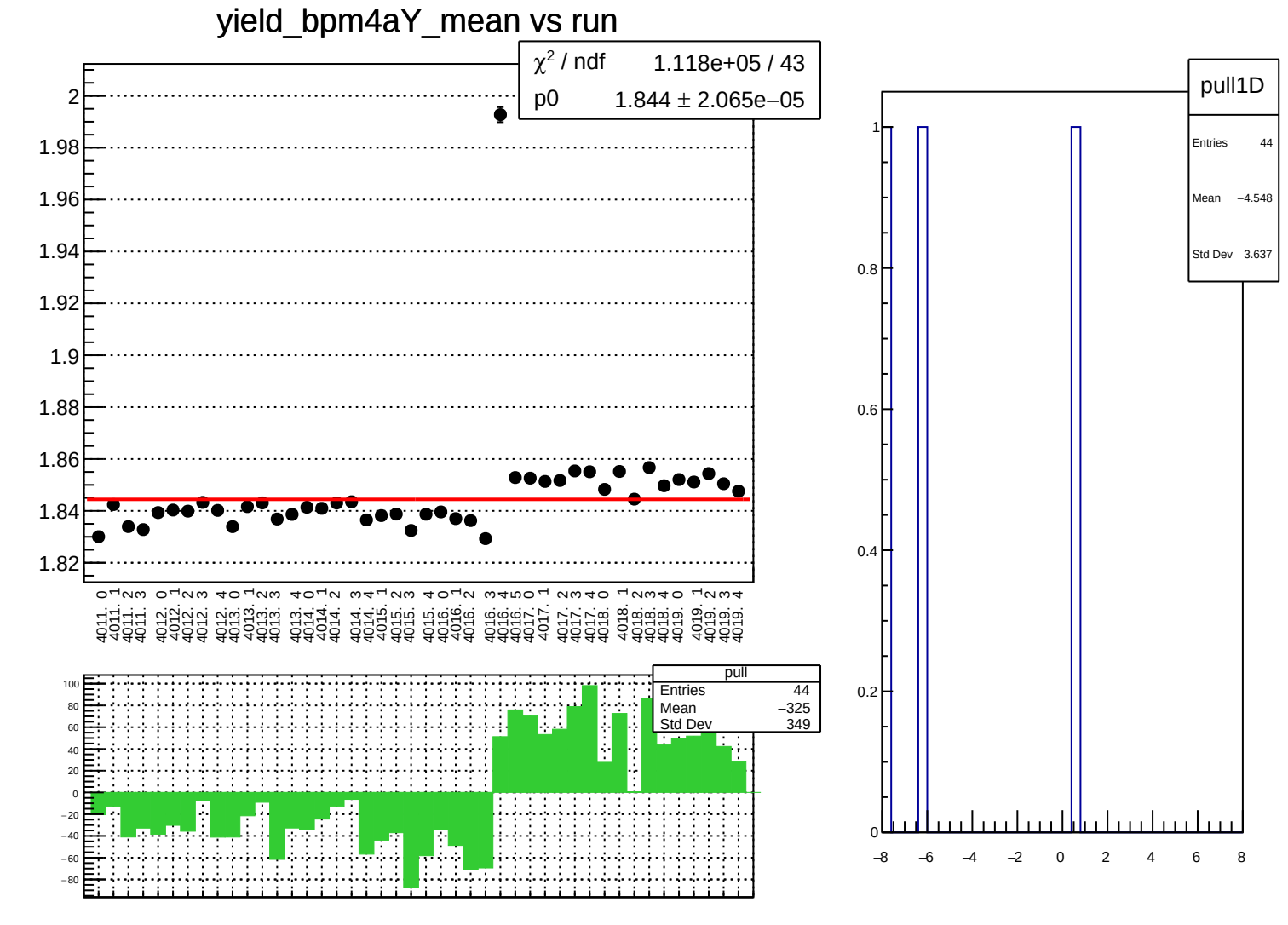

yield_cav4dY_mean vs run
χ² / ndf 2.52e+06 / 43
p0 −0.2723 ± 8.589e−05
pull
Entries 44
Mean 69.85
Std Dev 43.54

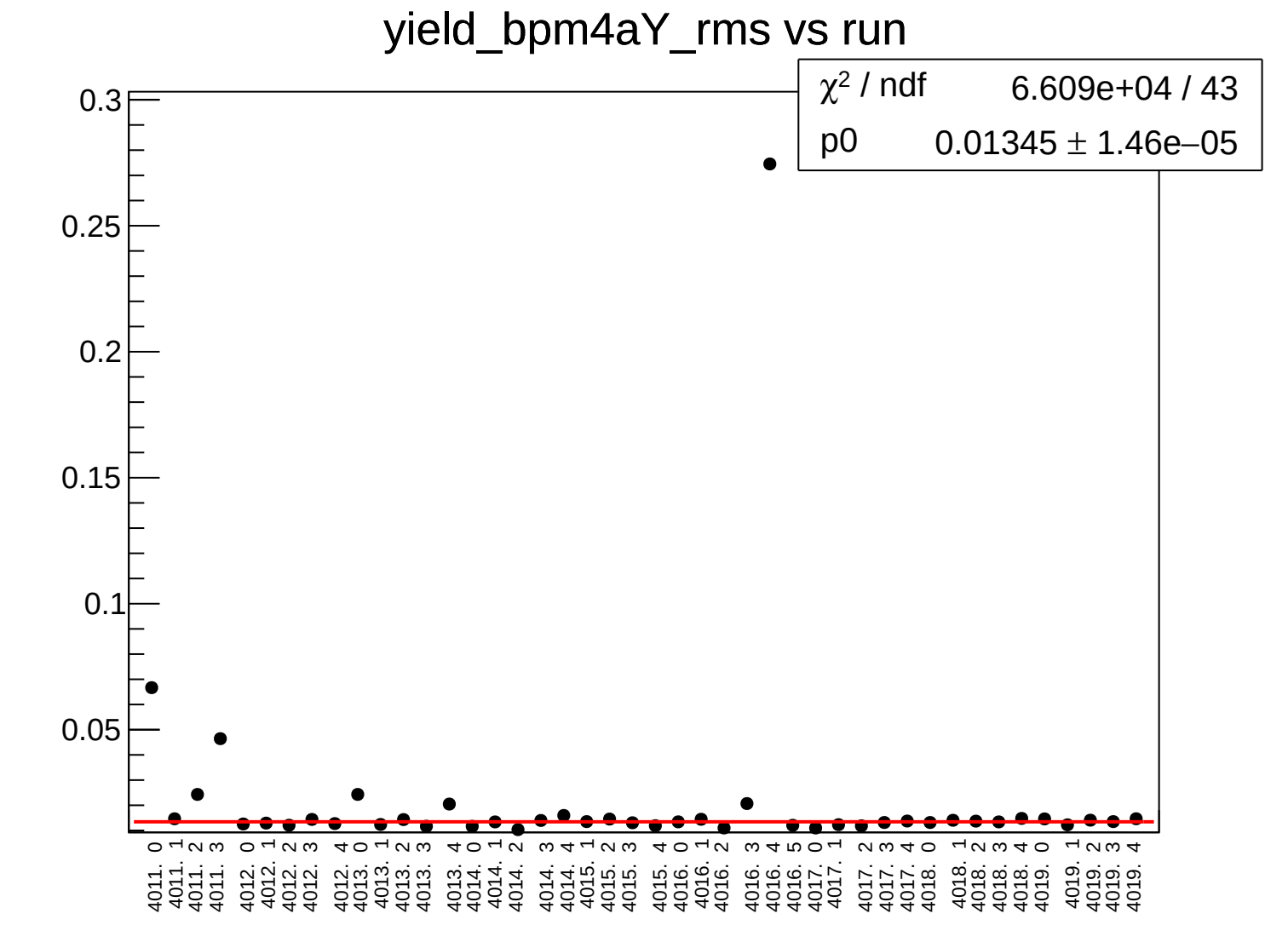

pull1D
Entries 44
Mean 2.732
Std Dev 0

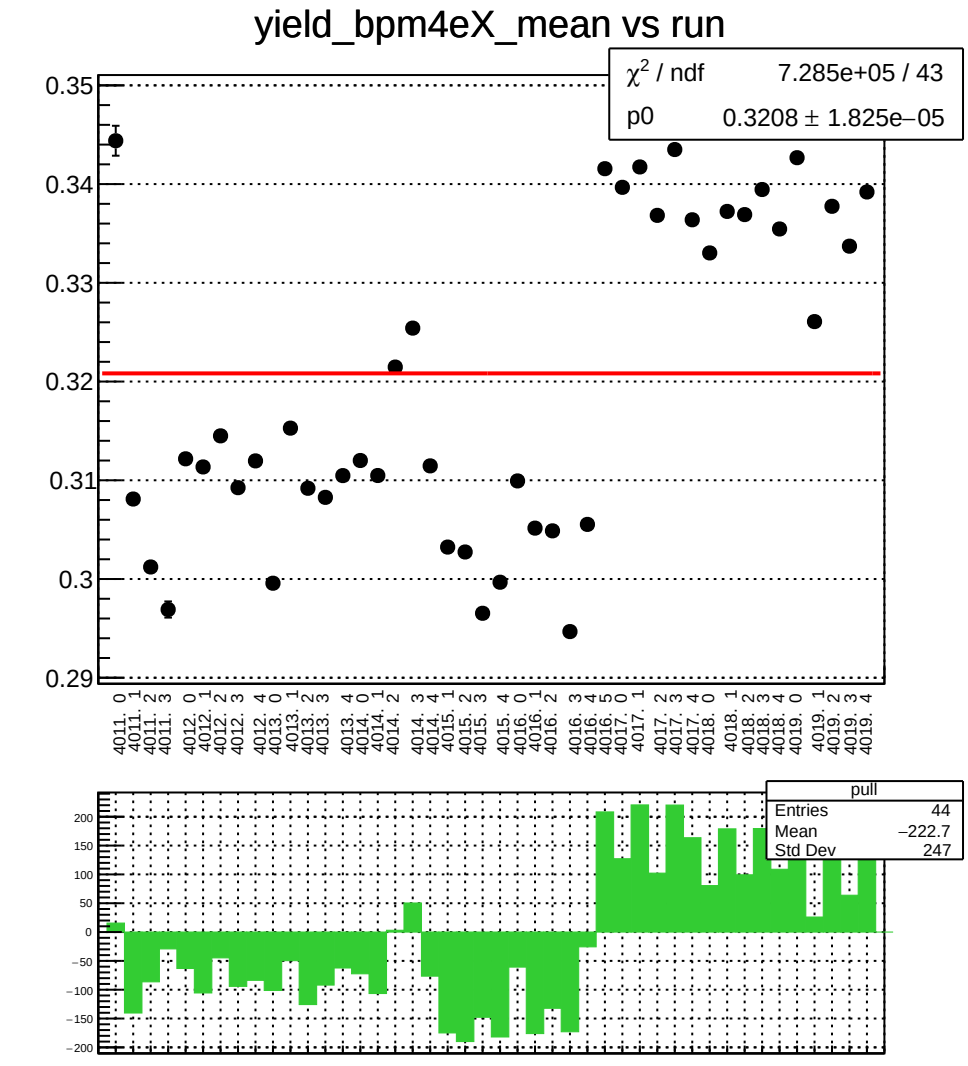

yield_cav4dY_rms vs run
χ² / ndf 2.69e+05 / 43
p0 0.04878 ± 6.073e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

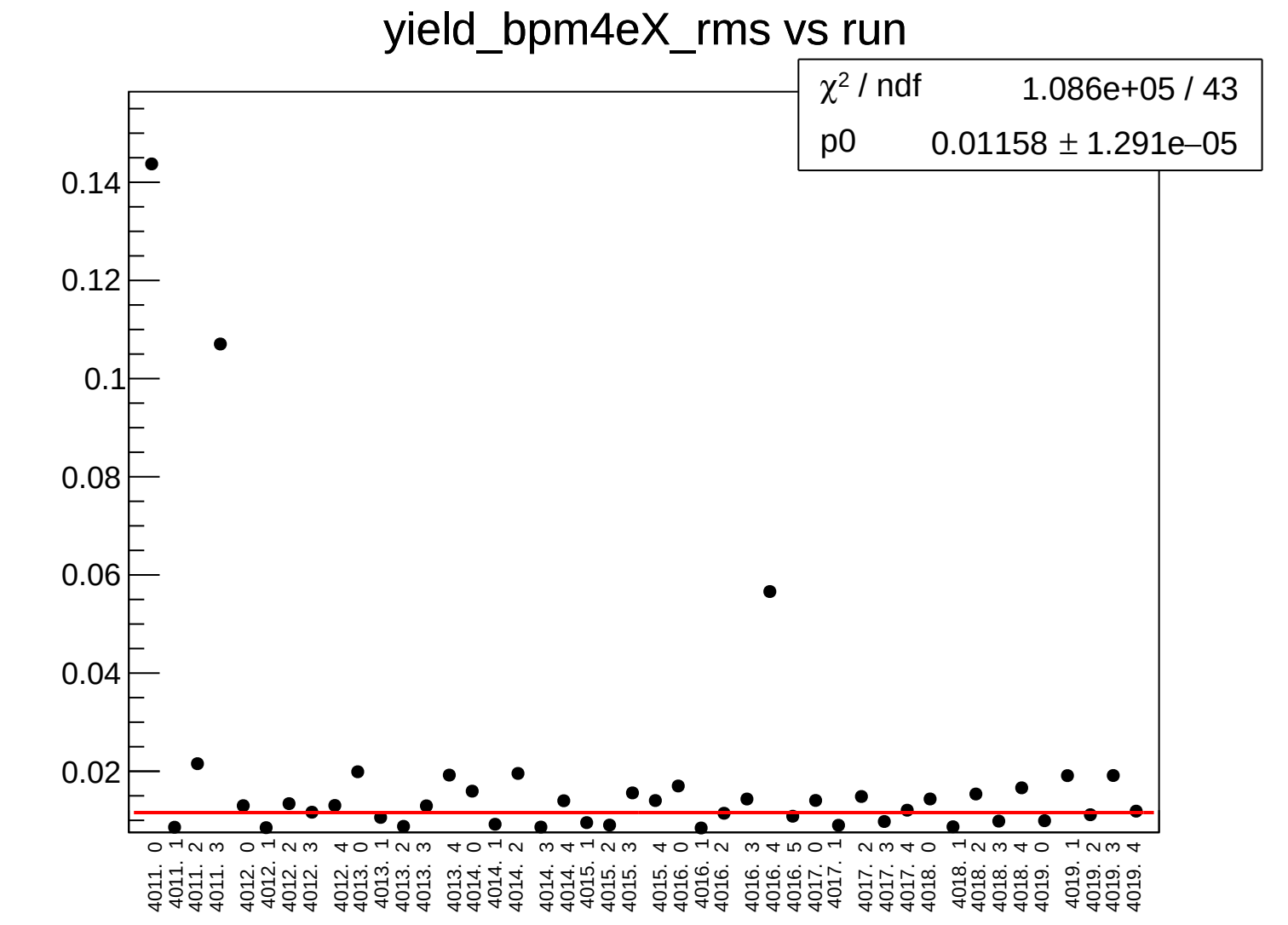

yield_bpm4aX_mean vs run
χ² / ndf 1.109e+05 / 43
p0 −0.01008 ± 1.265e−05
0.005
0
−0.005
−0.01
−0.015
−0.02
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −288
Std Dev 312.2
100
50
0
−50
−100
pull1D
Entries 44
Mean 1.169
Std Dev 4.938
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

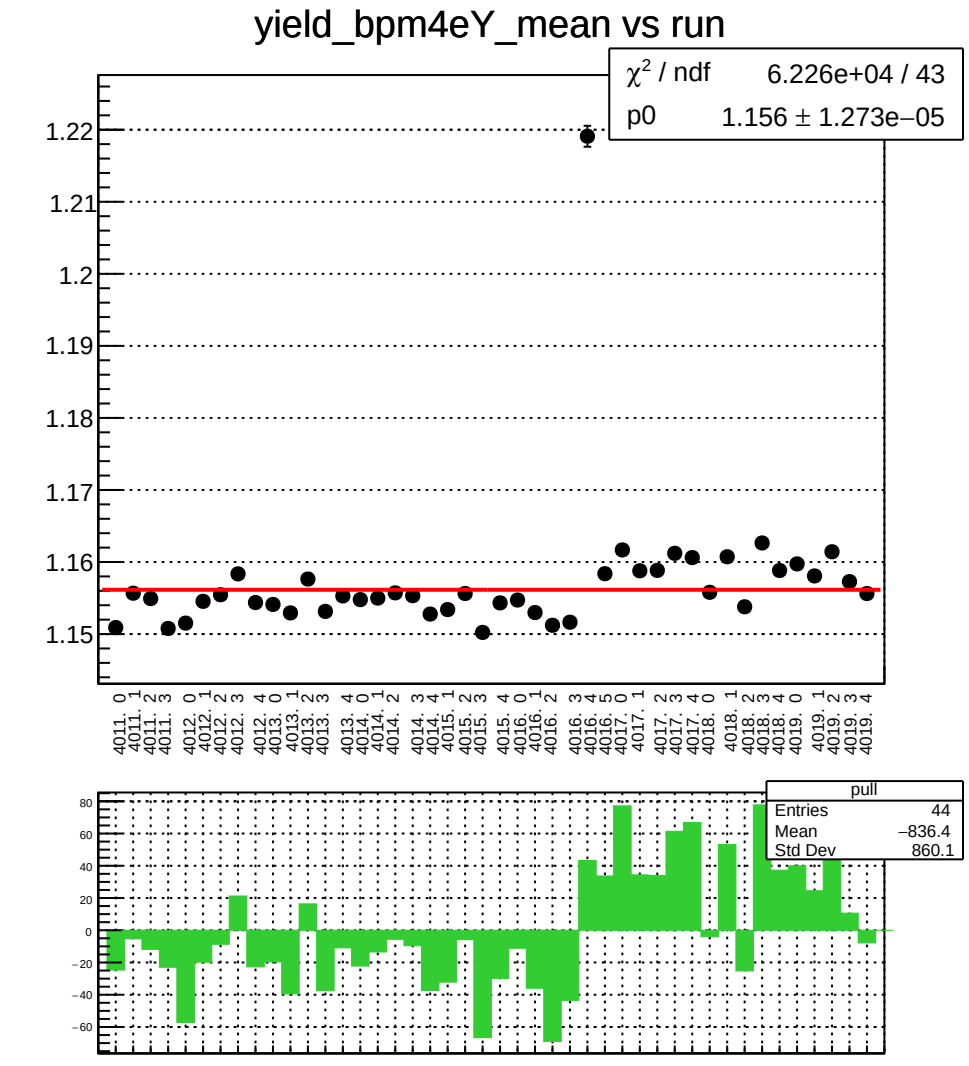

yield_bpm4aX_rms vs run
χ² / ndf 3.28e+04 / 43
p0 0.008399 ± 8.948e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

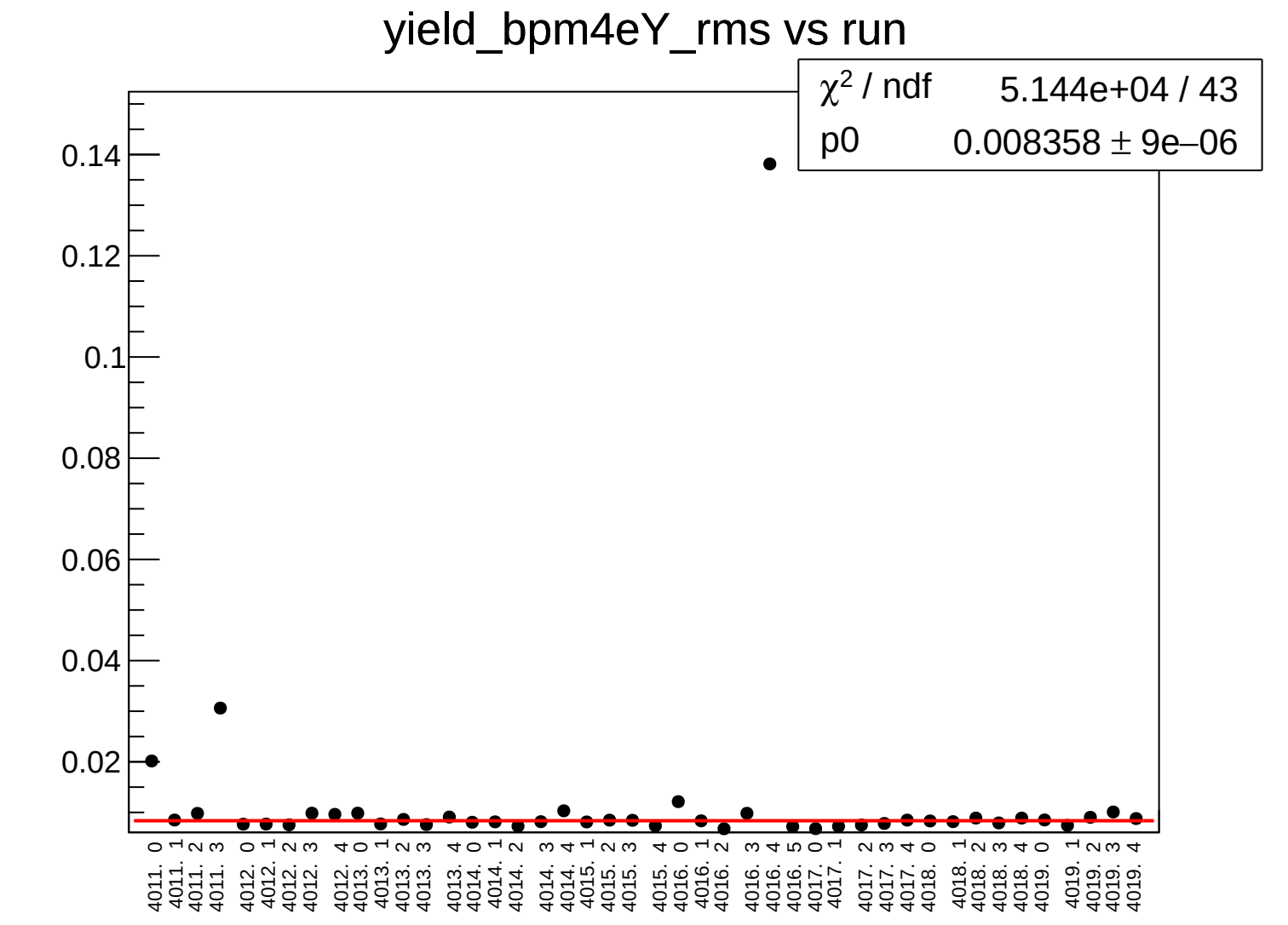

yield_bpm4aY_mean vs run
χ² / ndf 1.118e+05 / 43
p0 1.844 ± 2.065e−05
pull
Entries 44
Mean −325
Std Dev 349
pull1D
Entries 44
Mean −4.548
Std Dev 3.637

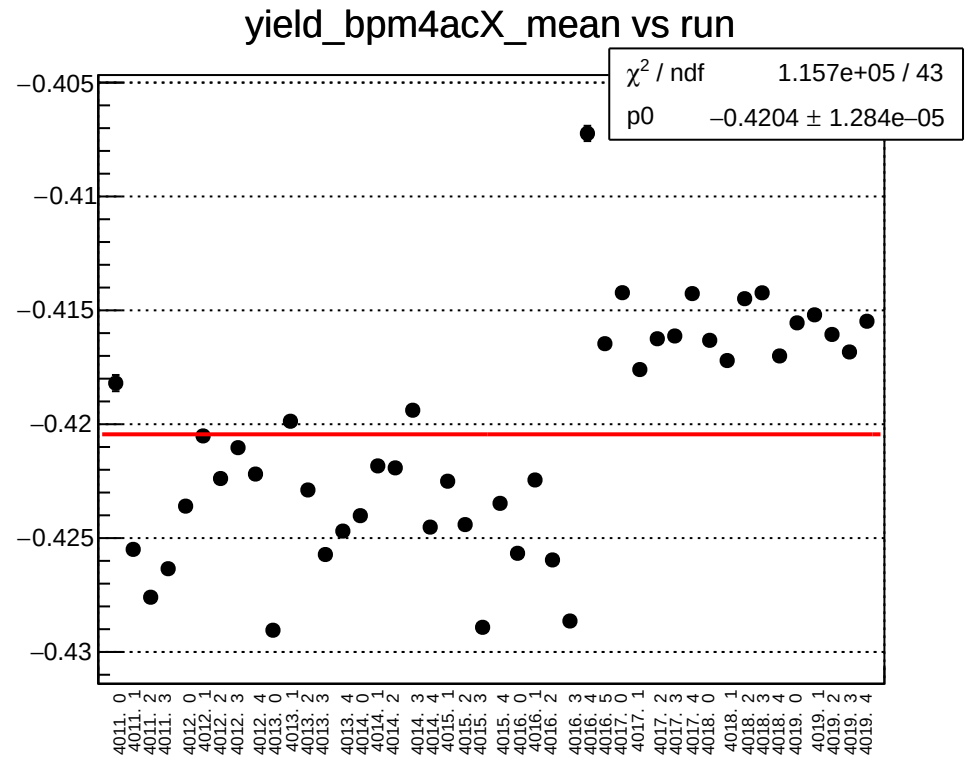

yield_bpm4aY_rms vs run
χ² / ndf 6.609e+04 / 43
p0 0.01345 ± 1.46e−05
0.3
0.25
0.2
0.15
0.1
0.05
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

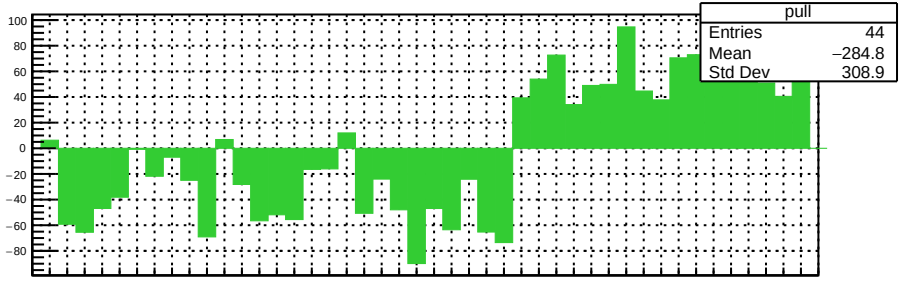

yield_bpm4eX_mean vs run
χ² / ndf 7.285e+05 / 43
p0 0.3208 ± 1.825e−05
0.35
0.34
0.33
0.32
0.31
0.3
0.29
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −222.7
Std Dev 247
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 44
Mean 3.107
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

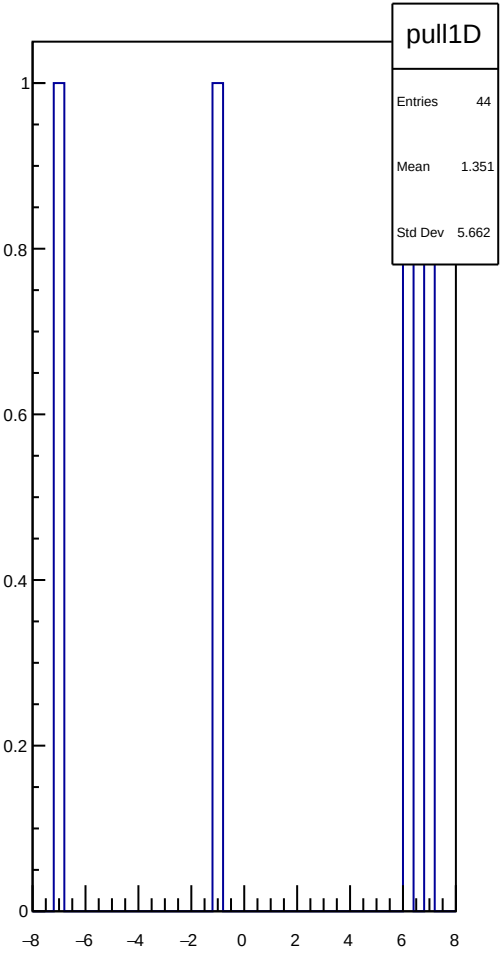

yield_bpm4eX_rms vs run
χ² / ndf 1.086e+05 / 43
p0 0.01158 ± 1.291e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

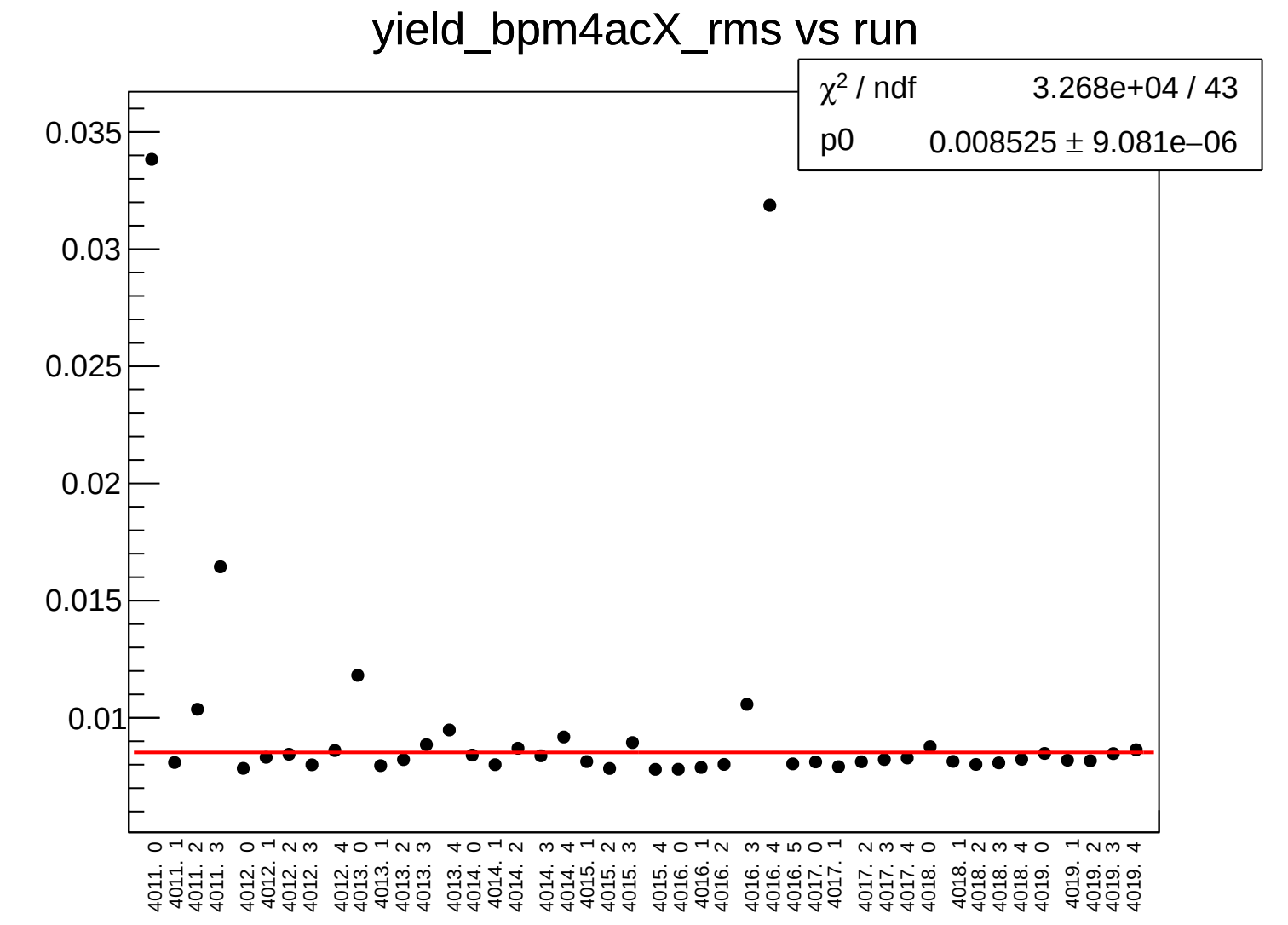

yield_bpm4eY_mean vs run
χ² / ndf 6.226e+04 / 43
p0 1.156 ± 1.273e−05
1.22
1.21
1.2
1.19
1.18
1.17
1.16
1.15
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −836.4
Std Dev 860.1
80
60
40
20
0
−20
−40
−60
pull1D
Entries 44
Mean −5.722
Std Dev 1.234
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

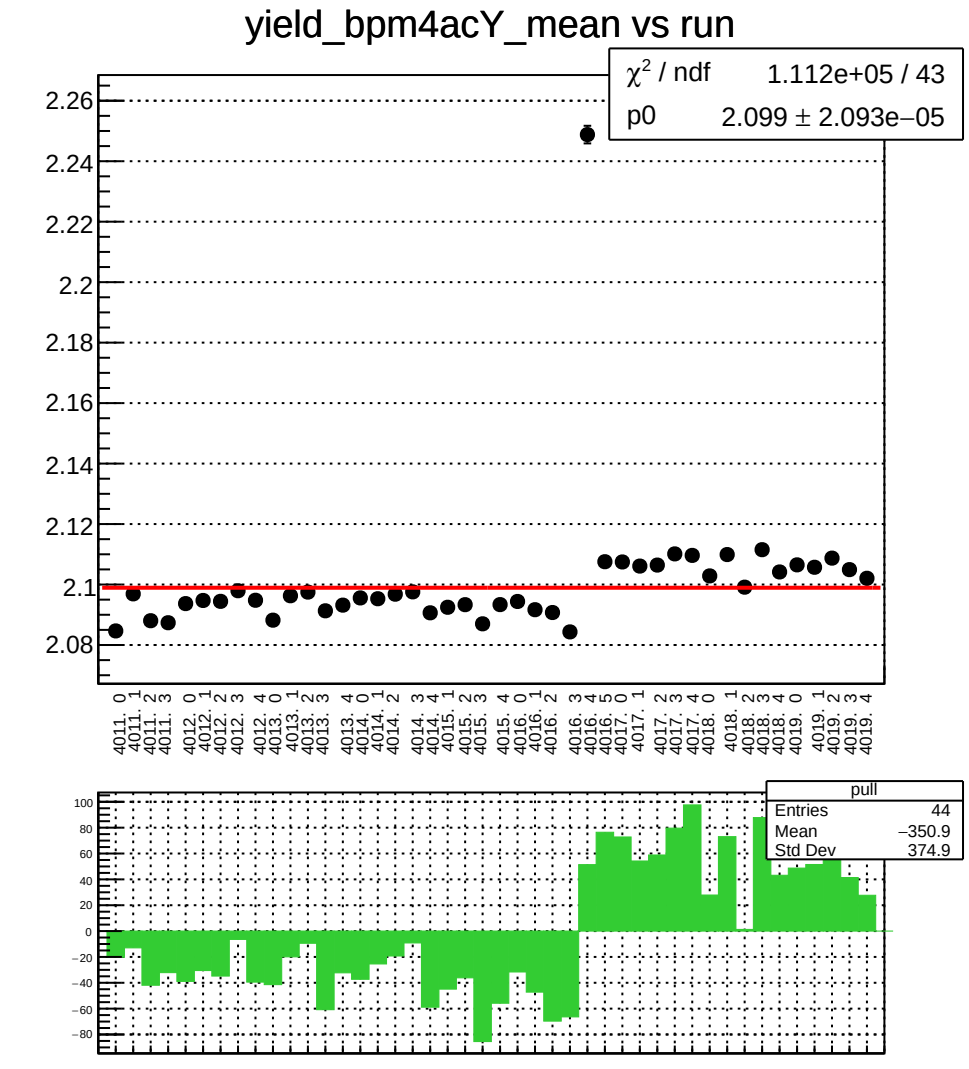

yield_bpm4eY_rms vs run
χ² / ndf 5.144e+04 / 43
p0 0.008358 ± 9e–06
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

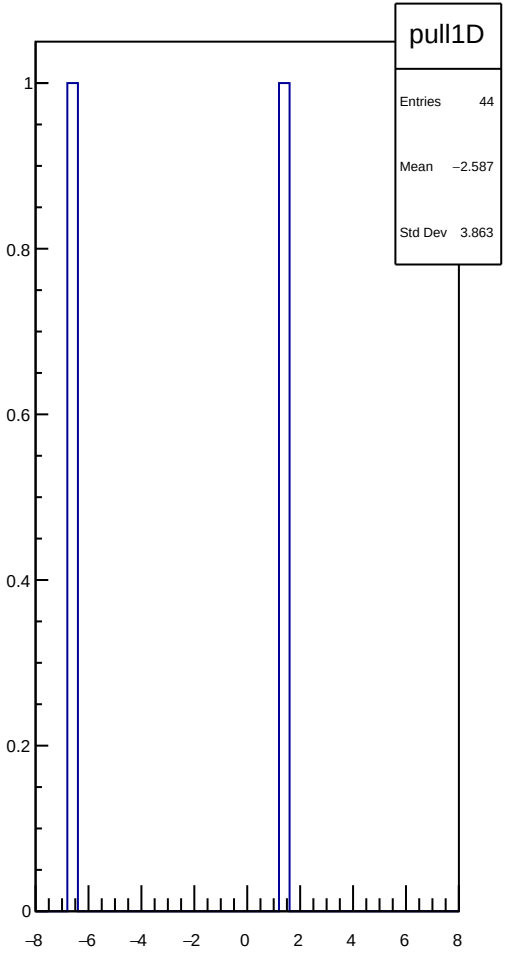

yield_bpm4acX_mean vs run
χ² / ndf 1.157e+05 / 43
p0 −0.4204 ± 1.284e−05
−0.405
−0.41
−0.415
−0.42
−0.425
−0.43
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

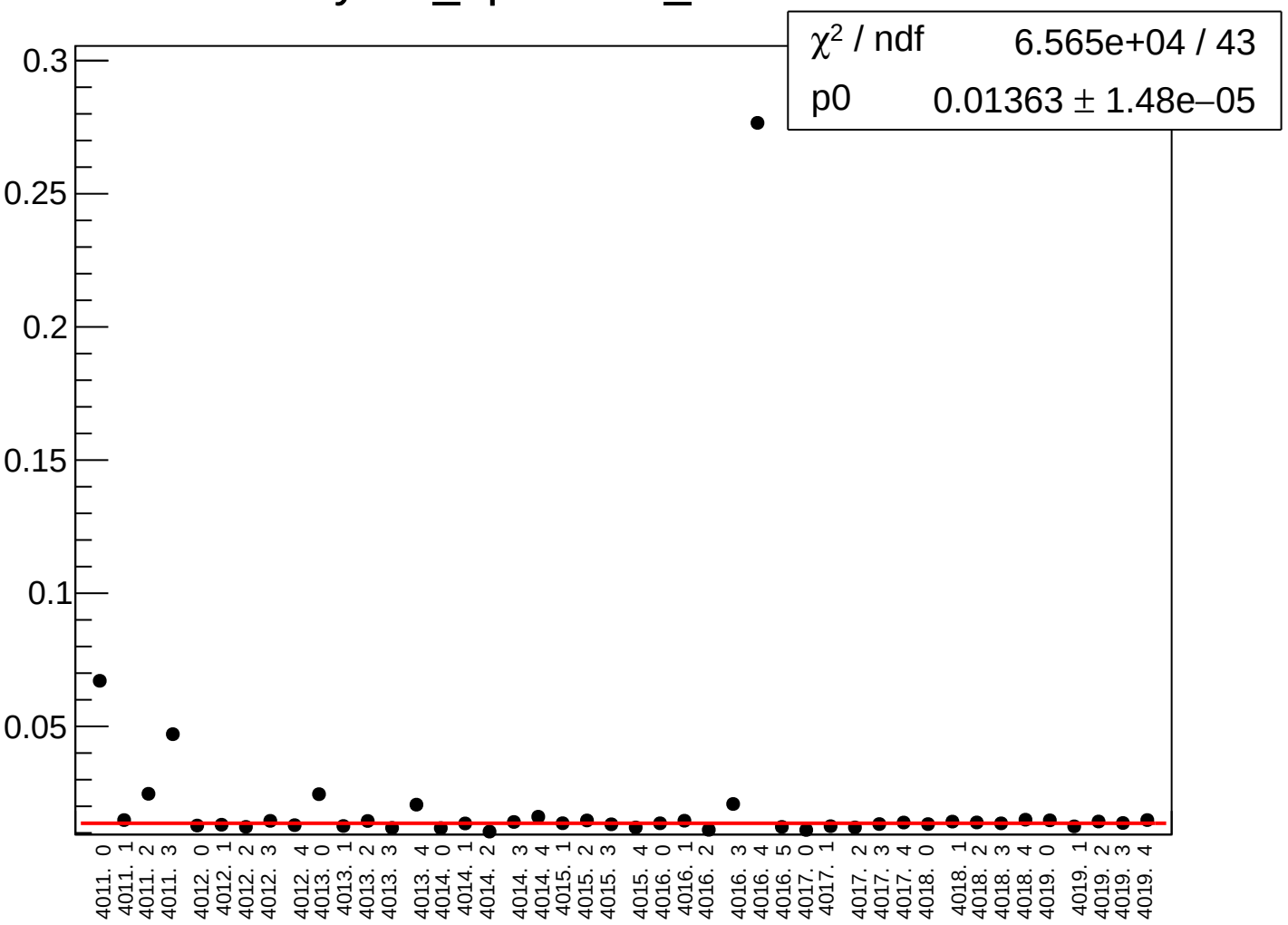

pull
Entries 44
Mean −284.8
Std Dev 308.9
100
80
60
40
20
0
−20
−40
−60
−80

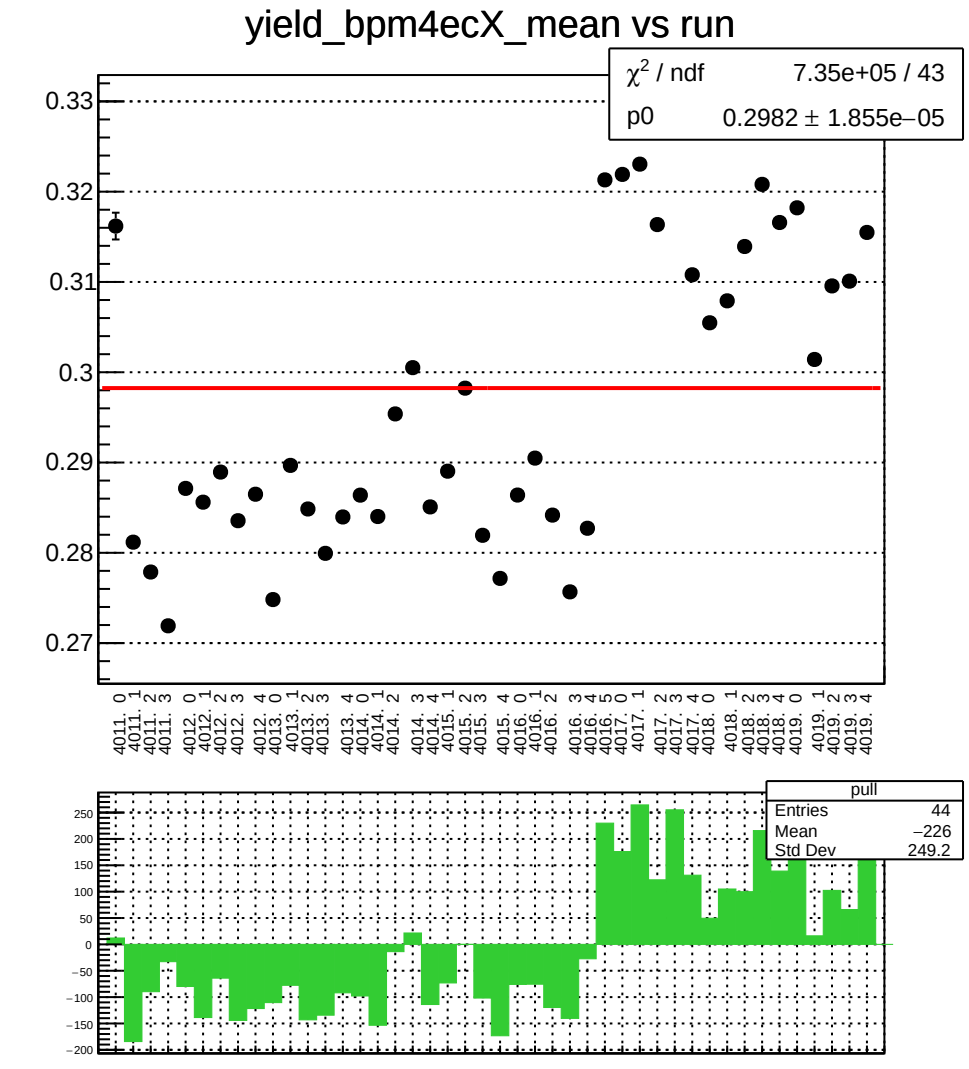

pull1D
Entries 44
Mean 1.351
Std Dev 5.662
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

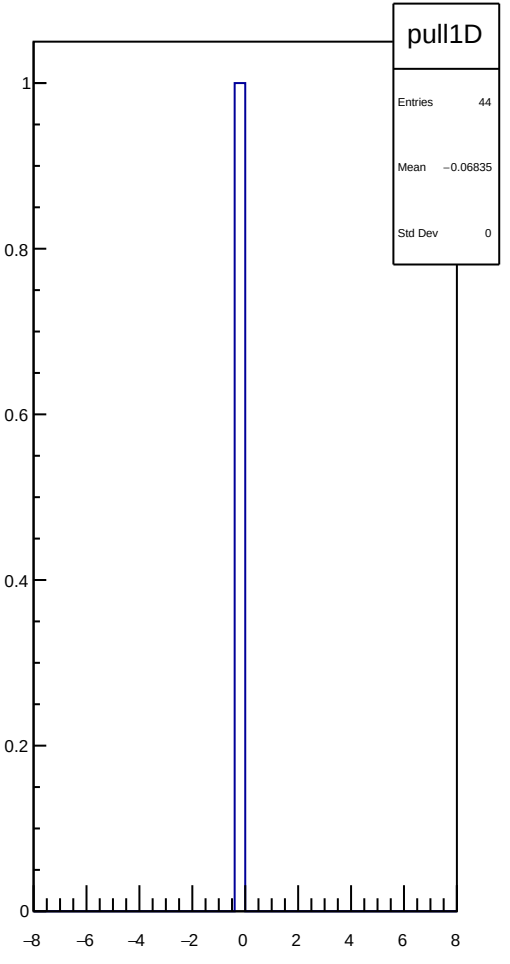

yield_bpm4acX_rms vs run
χ² / ndf 3.268e+04 / 43
p0 0.008525 ± 9.081e−06
0.035
0.03
0.025
0.02
0.015
0.01
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

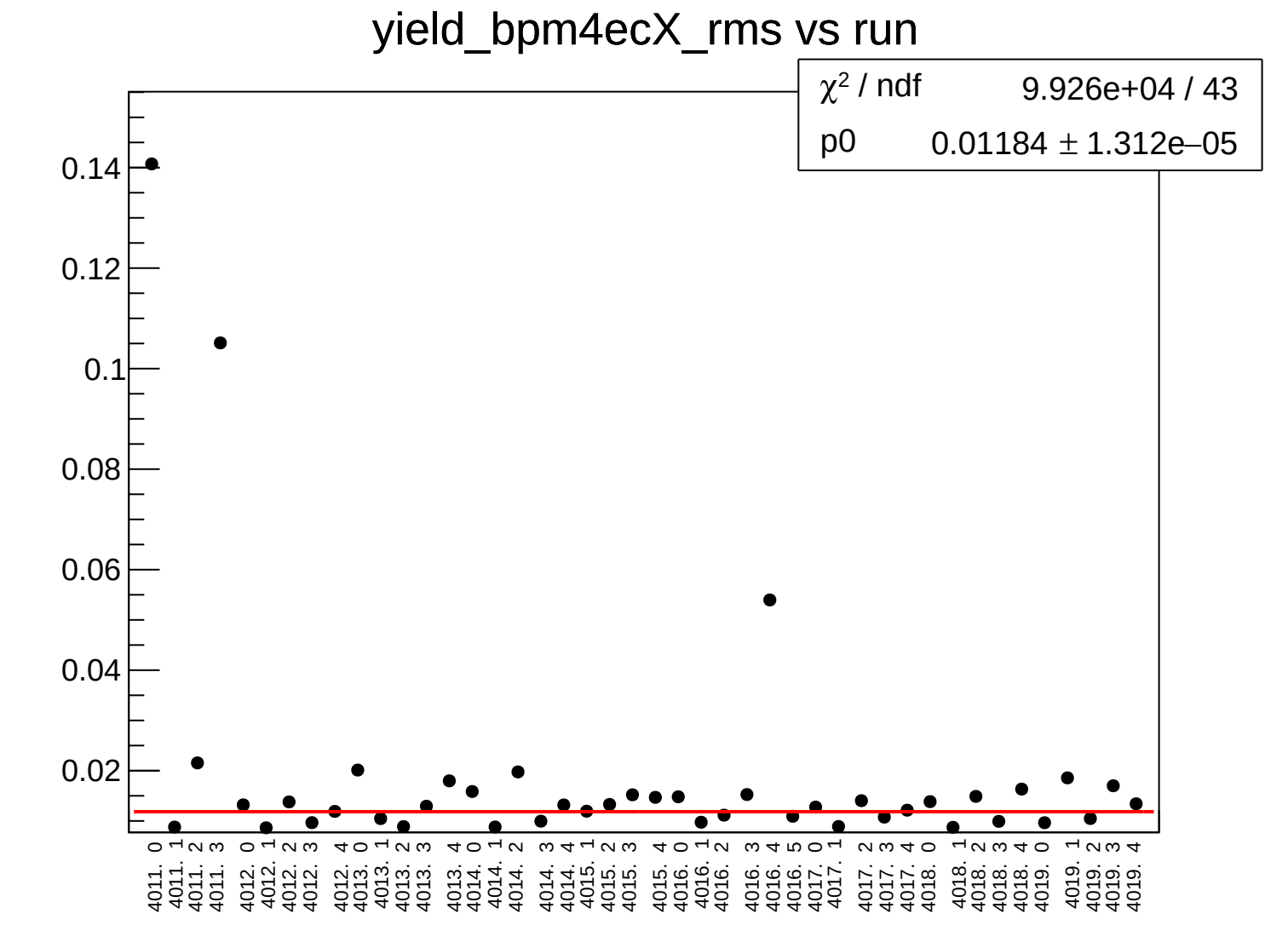

yield_bpm4acY_mean vs run
χ² / ndf 1.112e+05 / 43
p0 2.099 ± 2.093e−05
pull
Entries 44
Mean −350.9
Std Dev 374.9

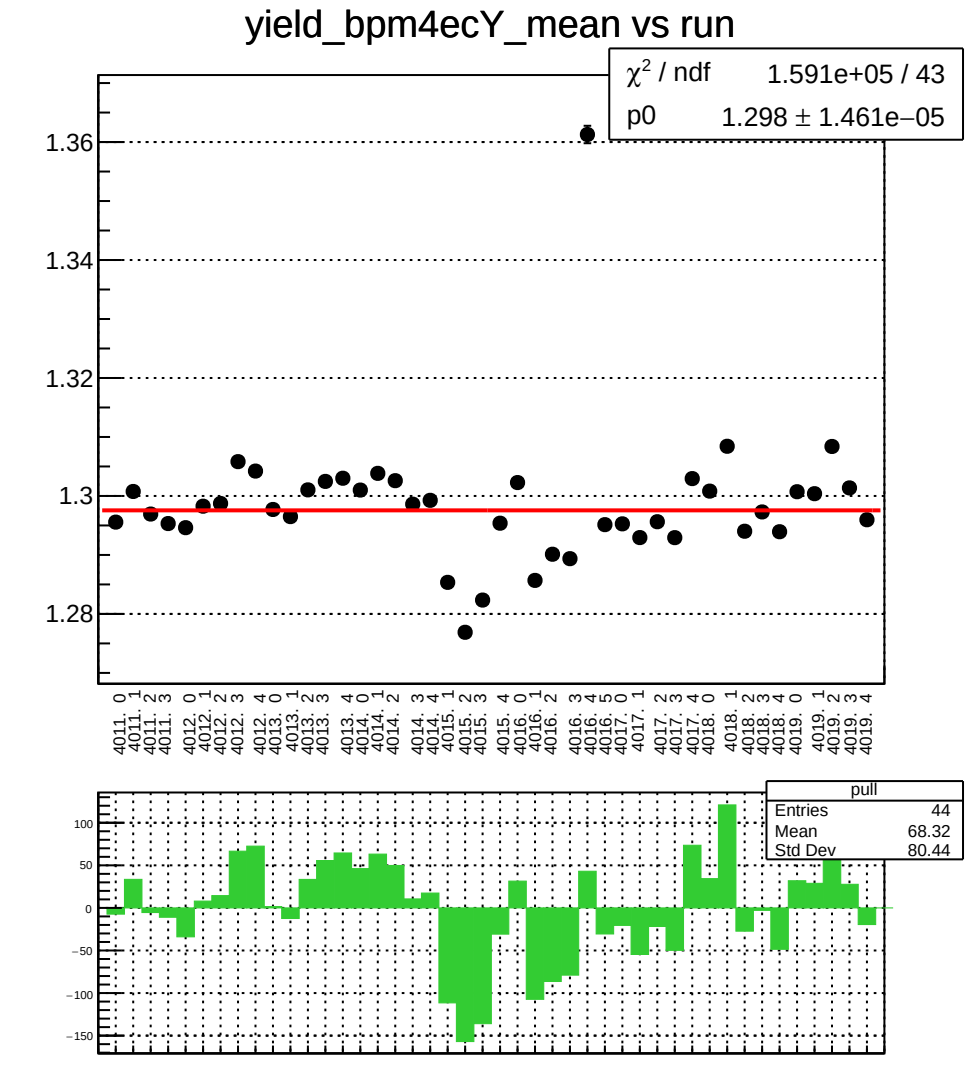

pull1D
Entries 44
Mean −2.587
Std Dev 3.863

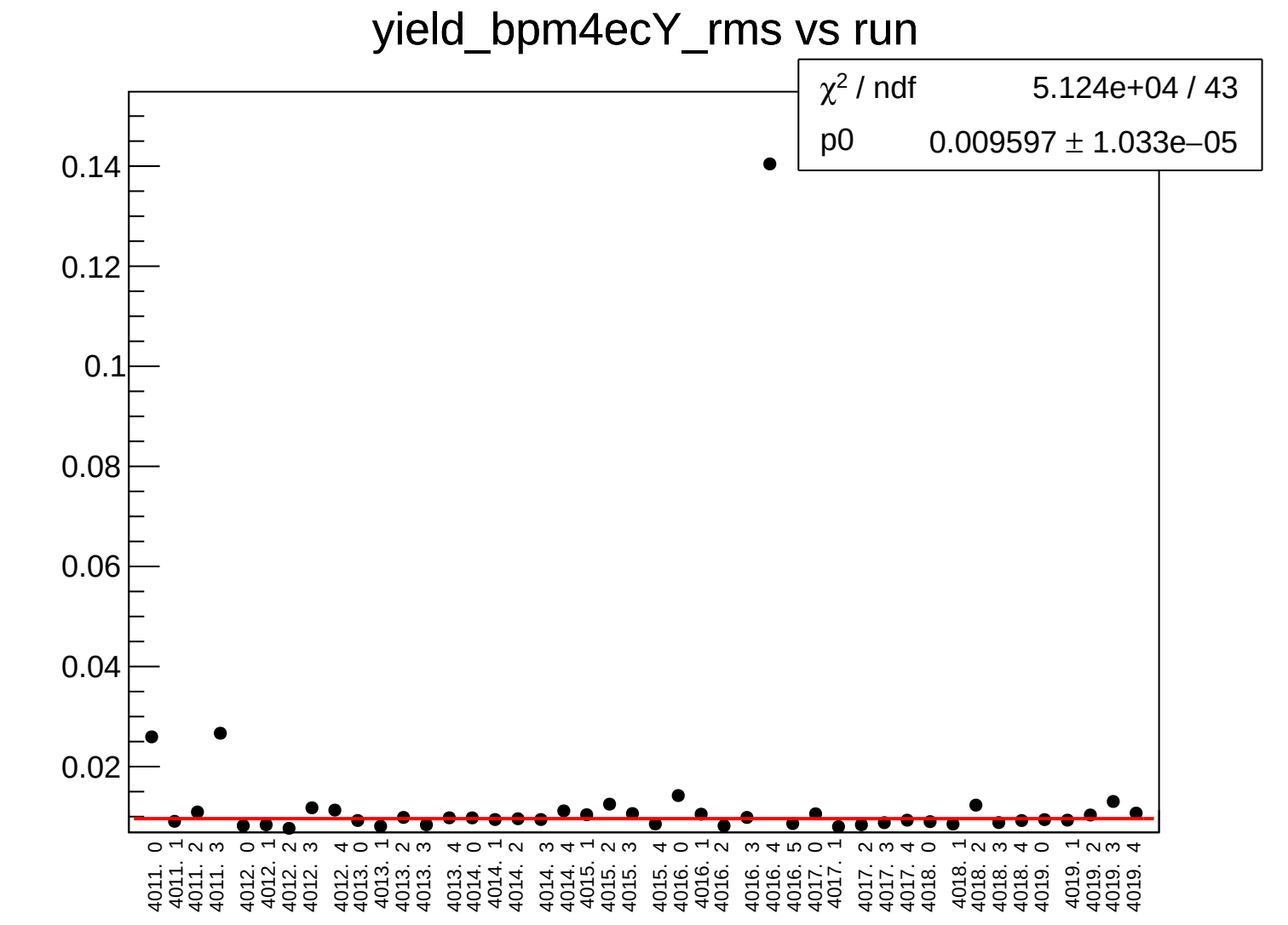

yield_bpm4acY_rms vs run
χ² / ndf 6.565e+04 / 43
p0 0.01363 ± 1.48e−05
0.3
0.25
0.2
0.15
0.1
0.05
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

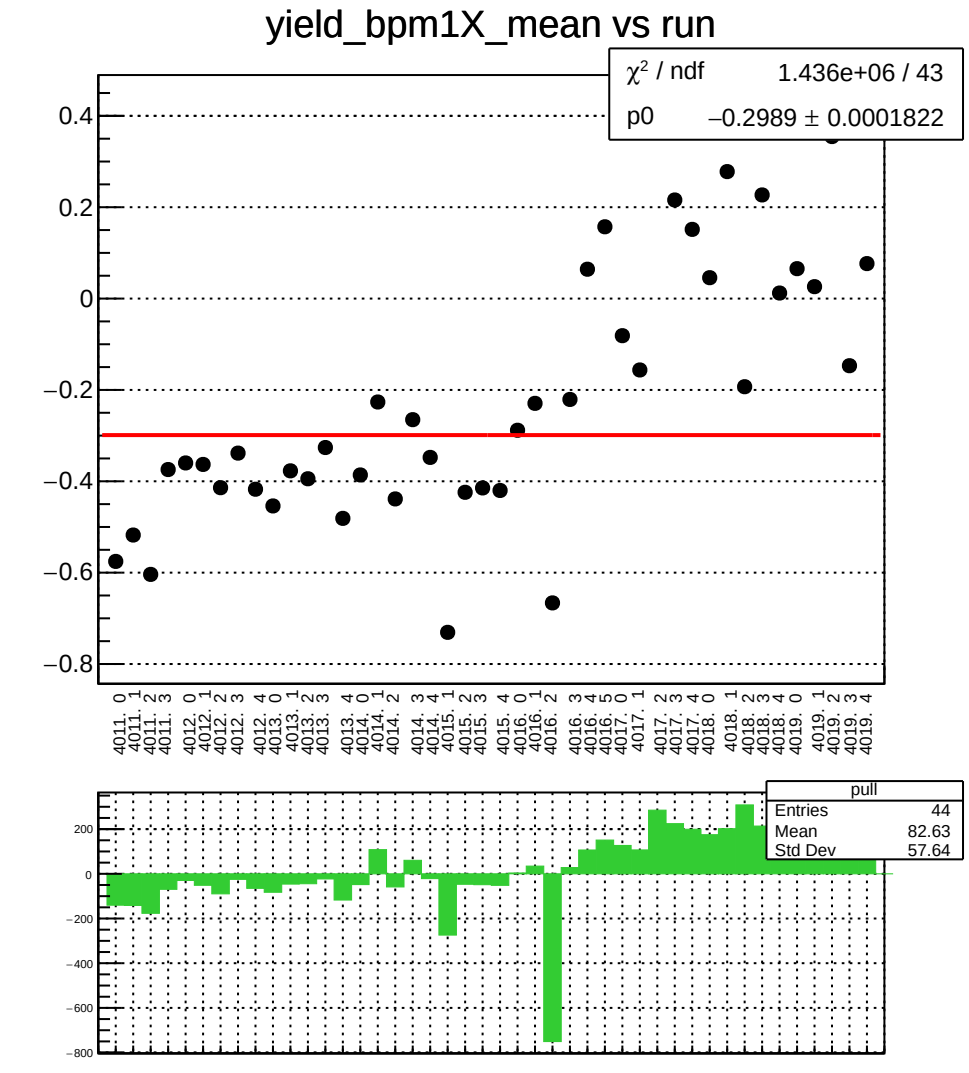

yield_bpm4ecX_mean vs run
χ² / ndf 7.35e+05 / 43
p0 0.2982 ± 1.855e−05
0.33
0.32
0.31
0.3
0.29
0.28
0.27
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −226
Std Dev 249.2
250
200
150
100
50
0
−50
−100
−150
−200

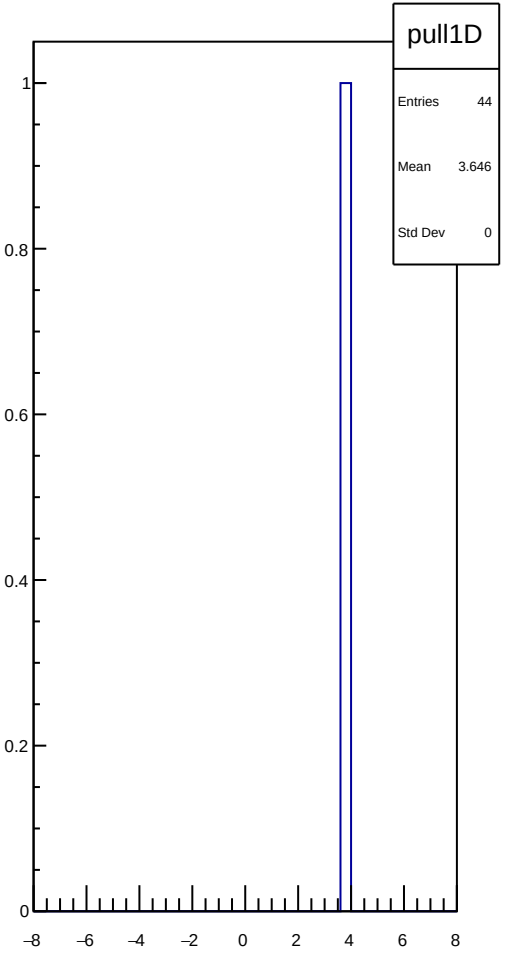

pull1D
Entries 44
Mean −0.06835
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

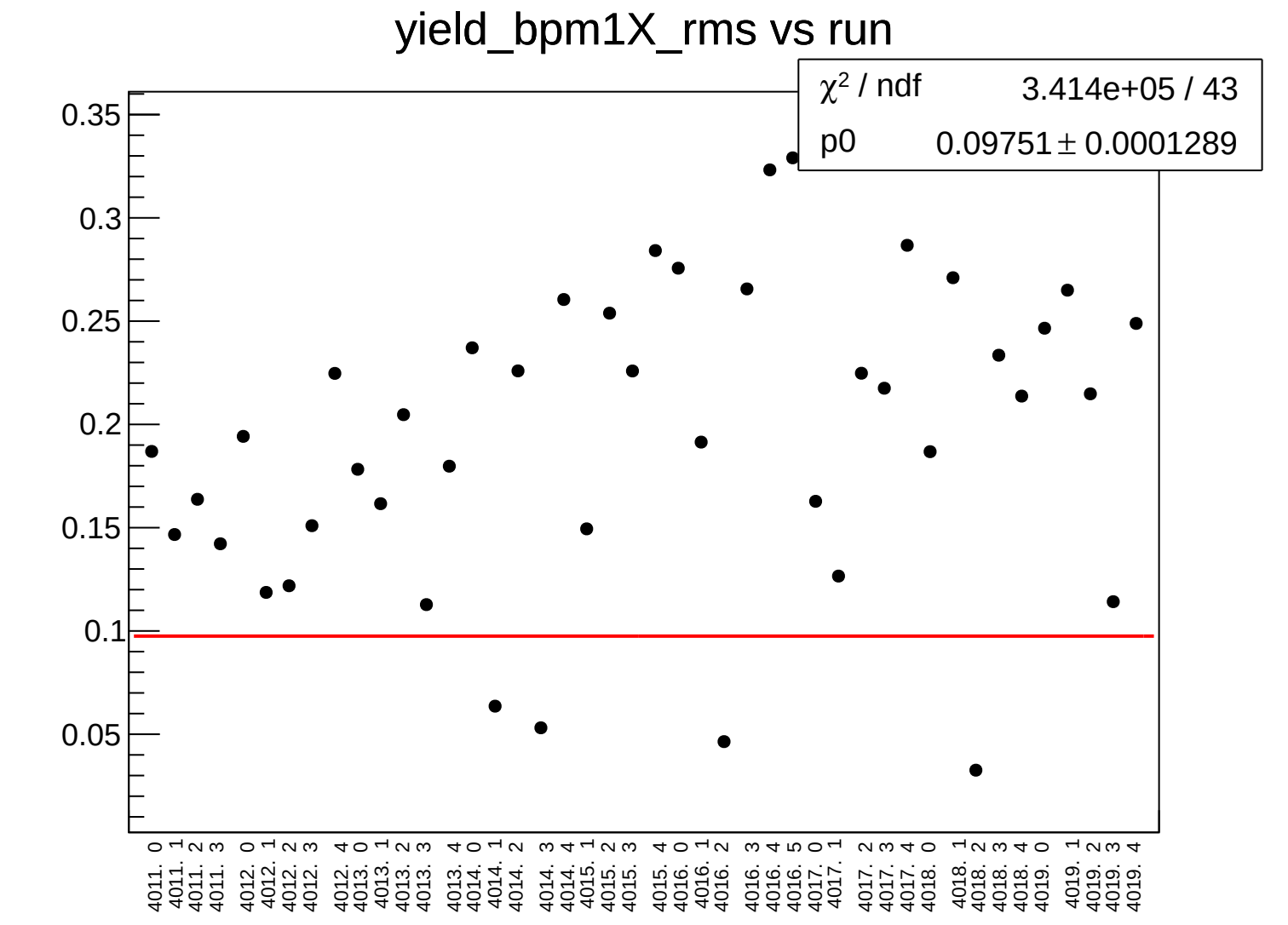

yield_bpm4ecX_rms vs run
χ² / ndf 9.926e+04 / 43
p0 0.01184 ± 1.312e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

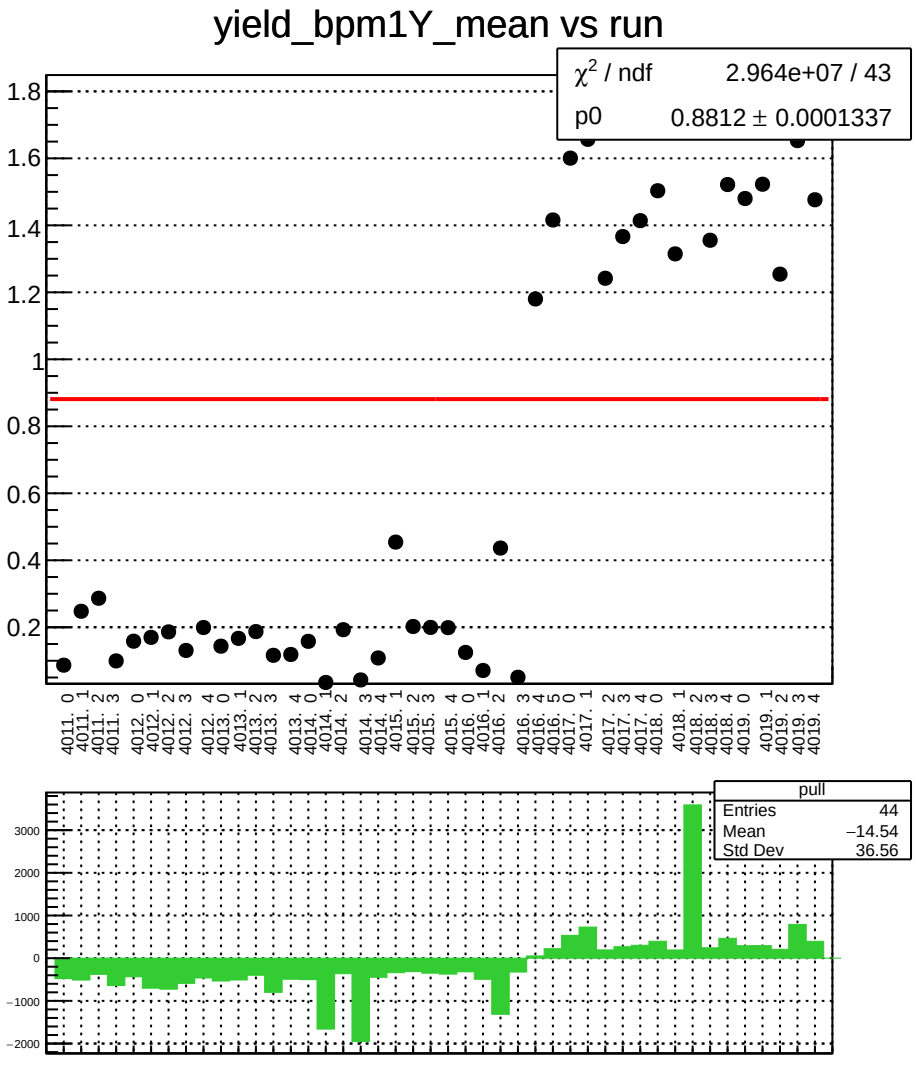

yield_bpm4ecY_mean vs run
χ² / ndf 1.591e+05 / 43
p0 1.298 ± 1.461e−05
1.36
1.34
1.32
1.3
1.28
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 68.32
Std Dev 80.44
100
50
0
−50
−100
−150
pull1D
Entries 44
Mean −1.205
Std Dev 5.474
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

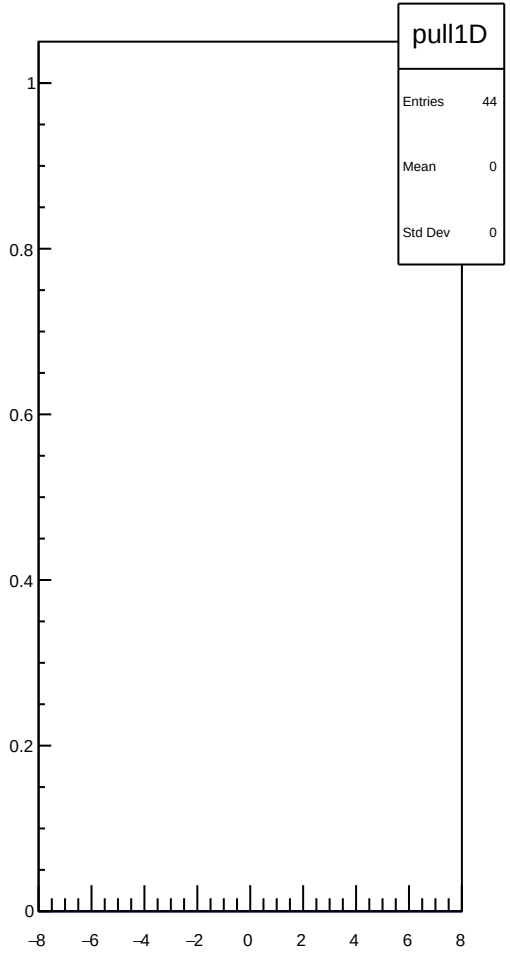

yield_bpm4ecY_rms vs run
χ^2 / ndf 5.124e+04 / 43
p0 0.009597 ± 1.033e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

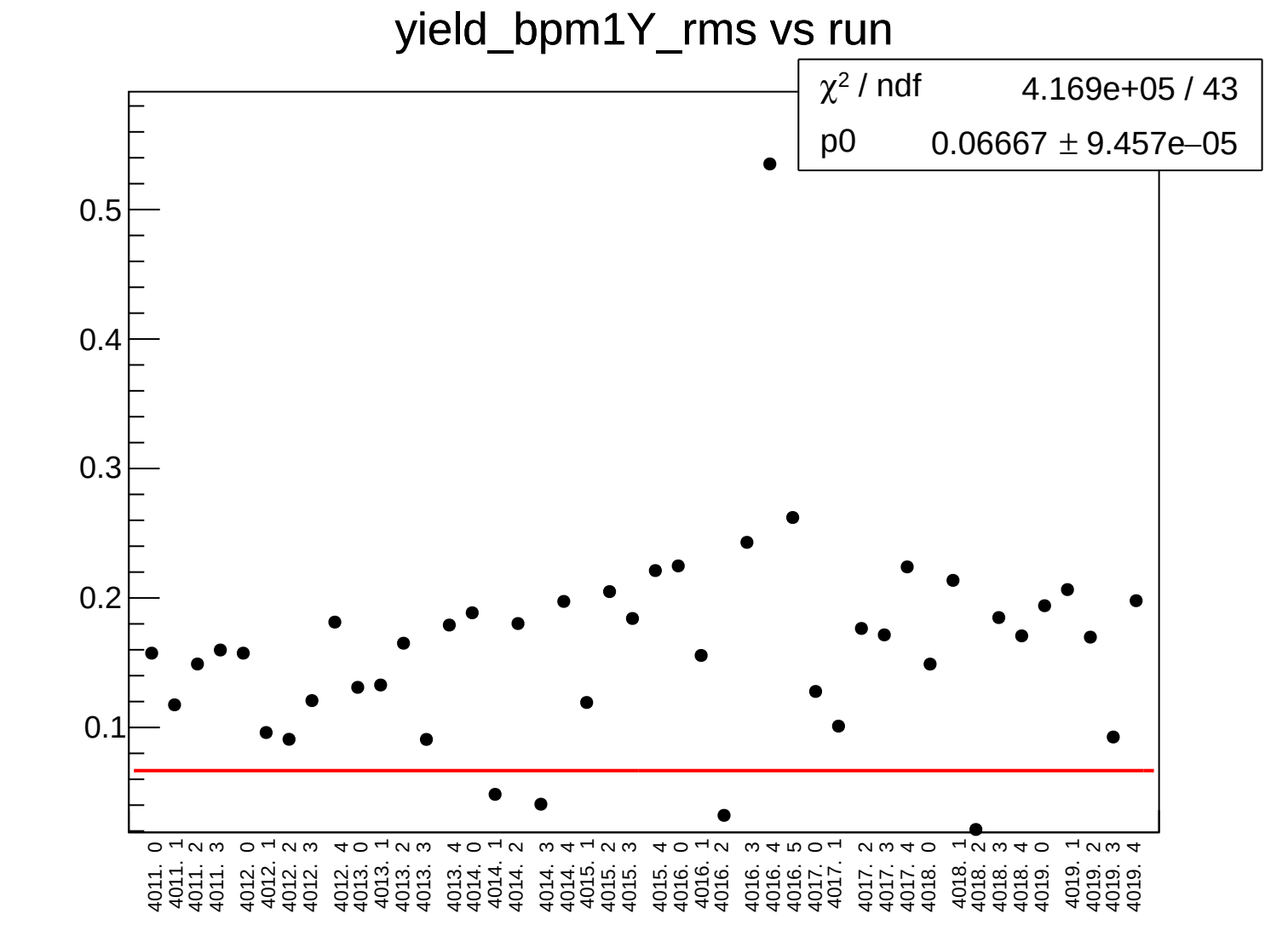

yield_bpm1X_mean vs run
χ² / ndf 1.436e+06 / 43
p0 −0.2989 ± 0.0001822
pull
Entries 44
Mean 82.63
Std Dev 57.64

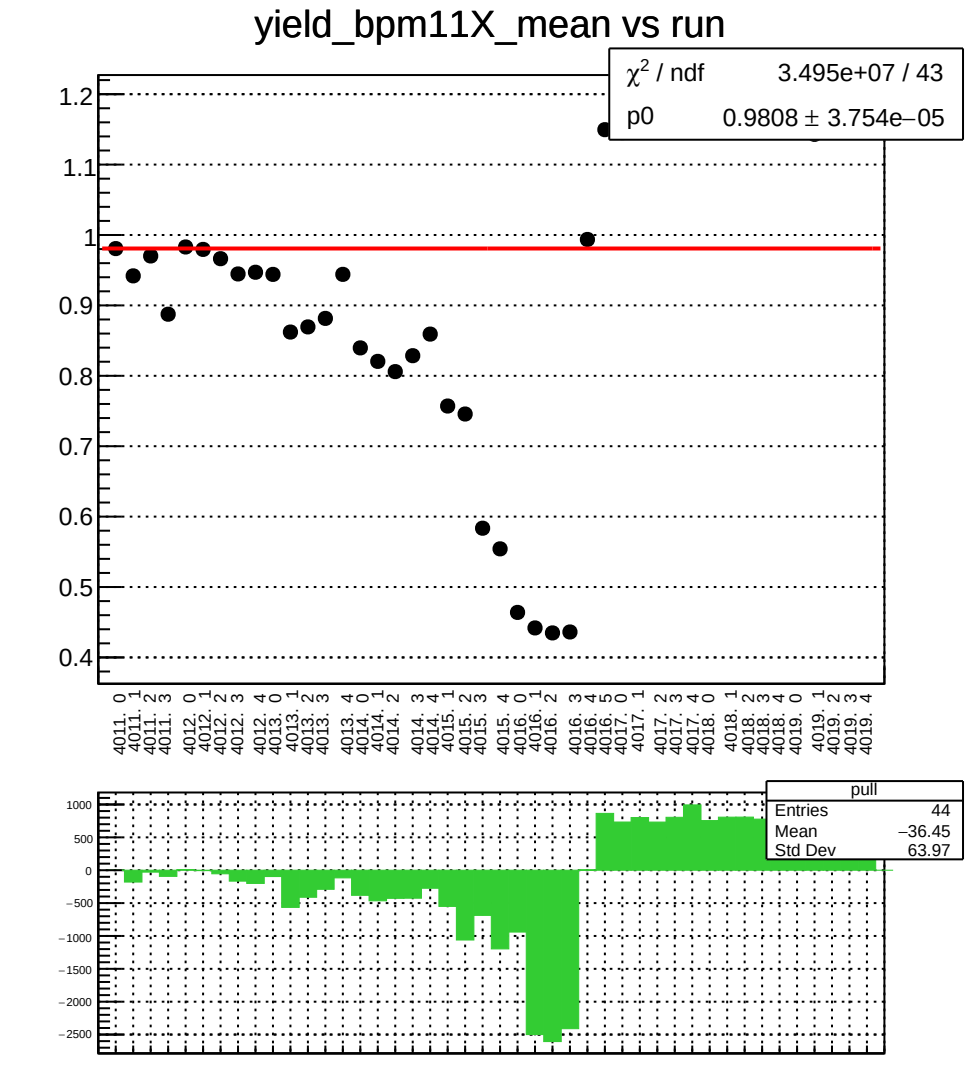

pull1D
Entries 44
Mean 3.646
Std Dev 0

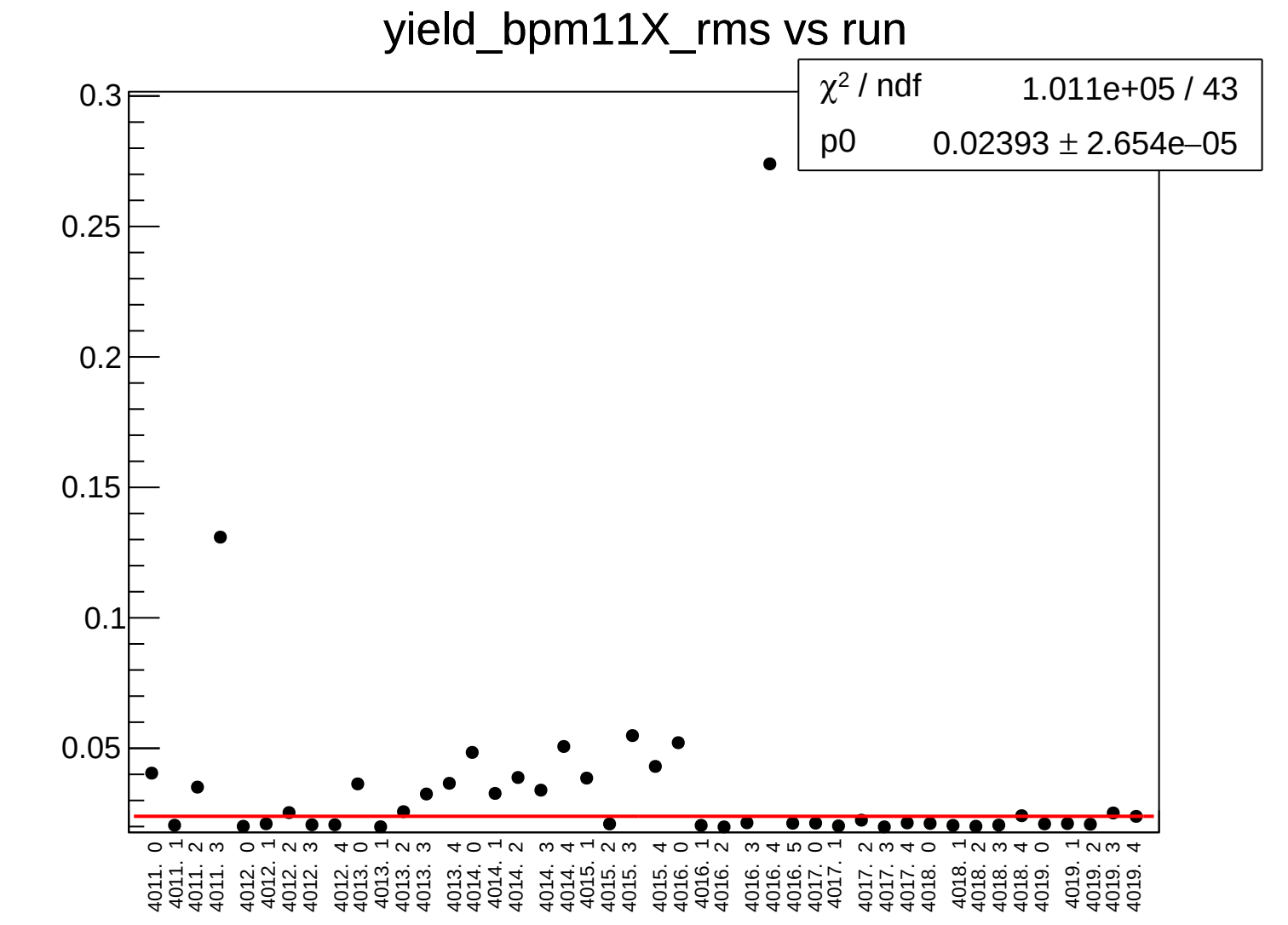

yield_bpm1X_rms vs run
χ² / ndf 3.414e+05 / 43
p0 0.09751 ± 0.0001289
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

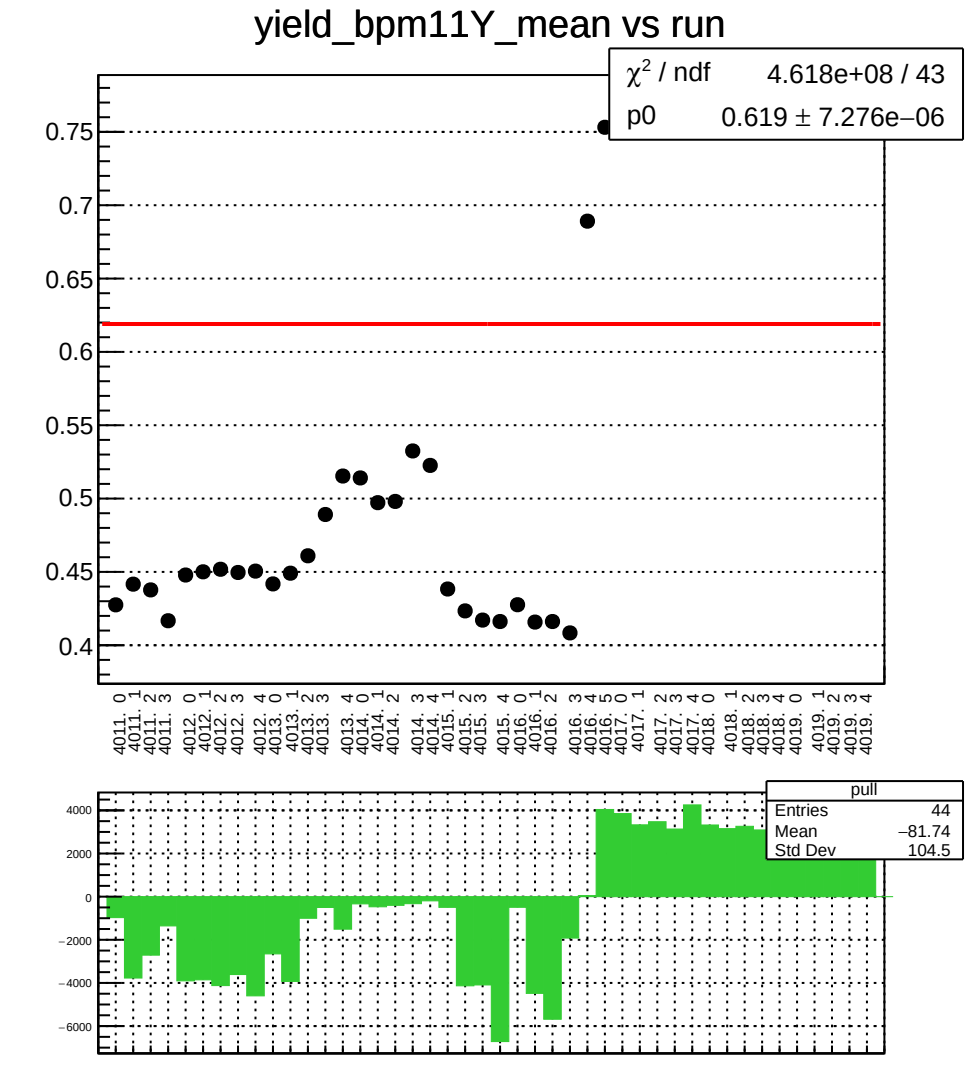

yield_bpm1Y_mean vs run
χ² / ndf 2.964e+07 / 43
p0 0.8812 ± 0.0001337
pull
Entries 44
Mean −14.54
Std Dev 36.56

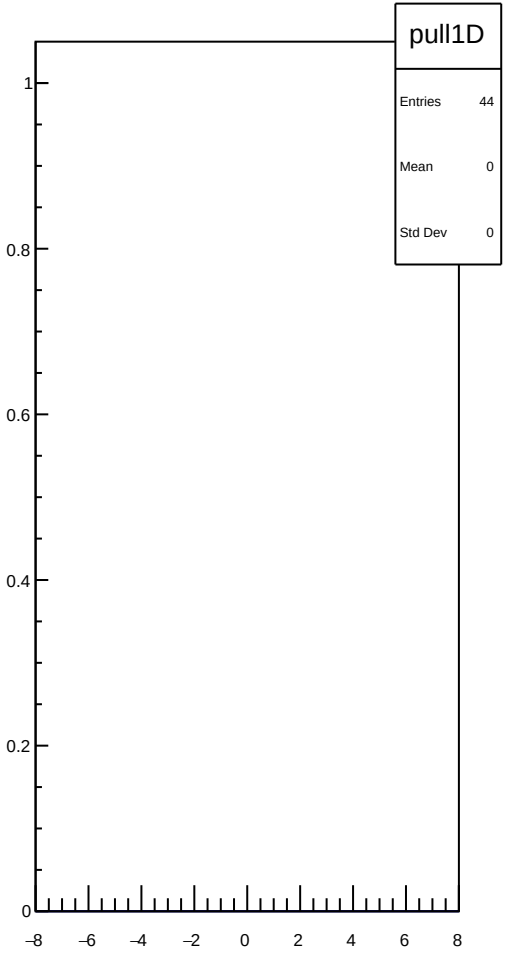

pull1D
Entries 44
Mean 0
Std Dev 0

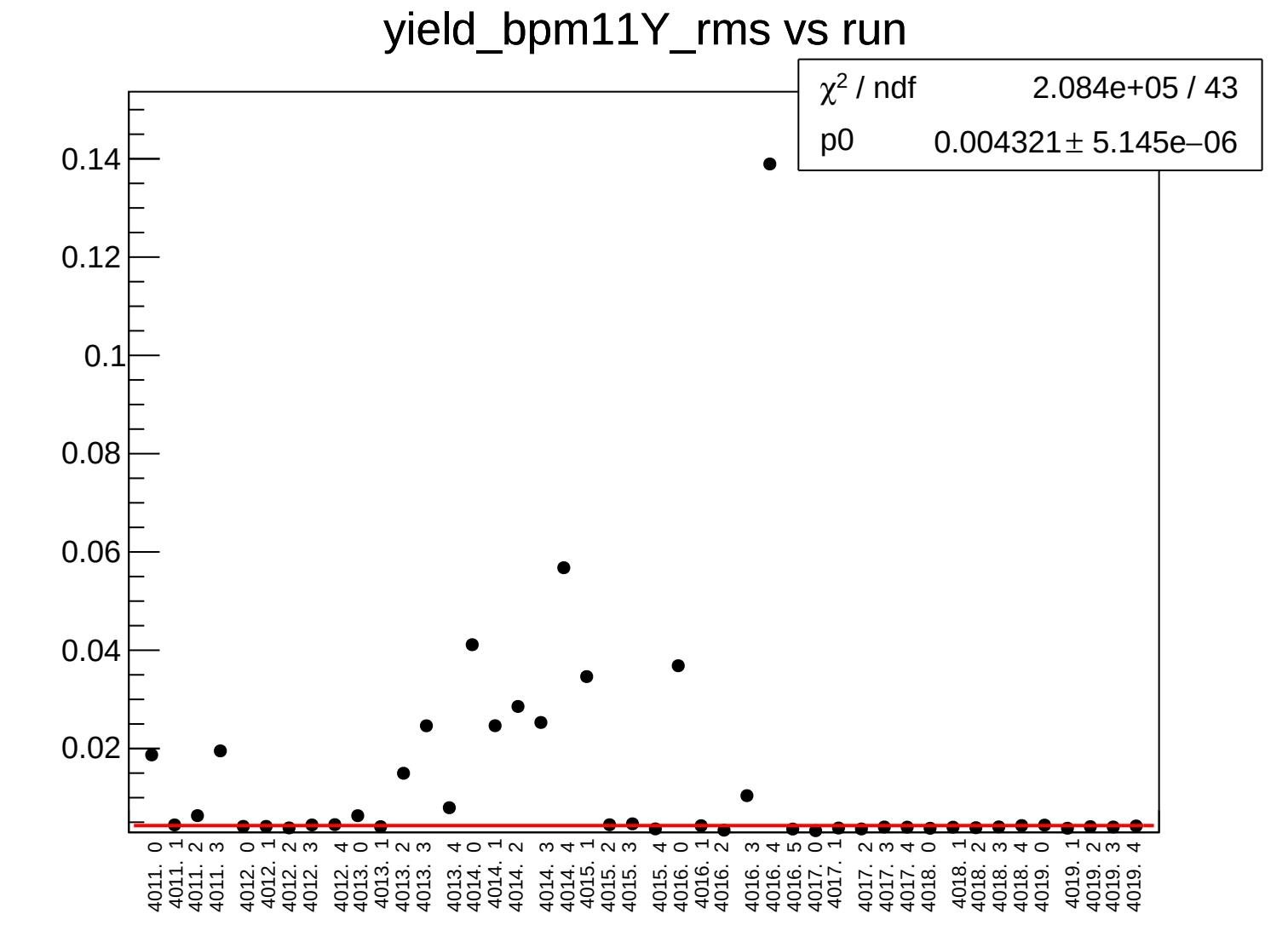

yield_bpm1Y_rms vs run
χ² / ndf 4.169e+05 / 43
p0 0.06667 ± 9.457e–05
0.5
0.4
0.3
0.2
0.1
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

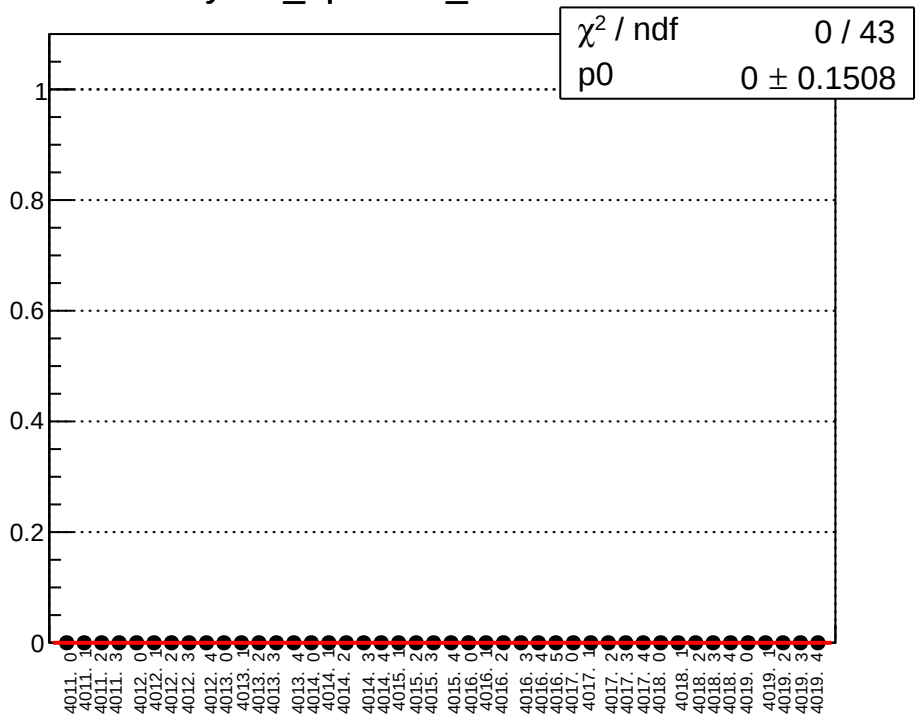

yield_bpm11X_mean vs run
χ² / ndf 3.495e+07 / 43
p0 0.9808 ± 3.754e−05
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4016. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −36.45
Std Dev 63.97
1000
500
0
−500
−1000
−1500
−2000
−2500
pull1D
Entries 44
Mean −0.5082
Std Dev 4.157
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

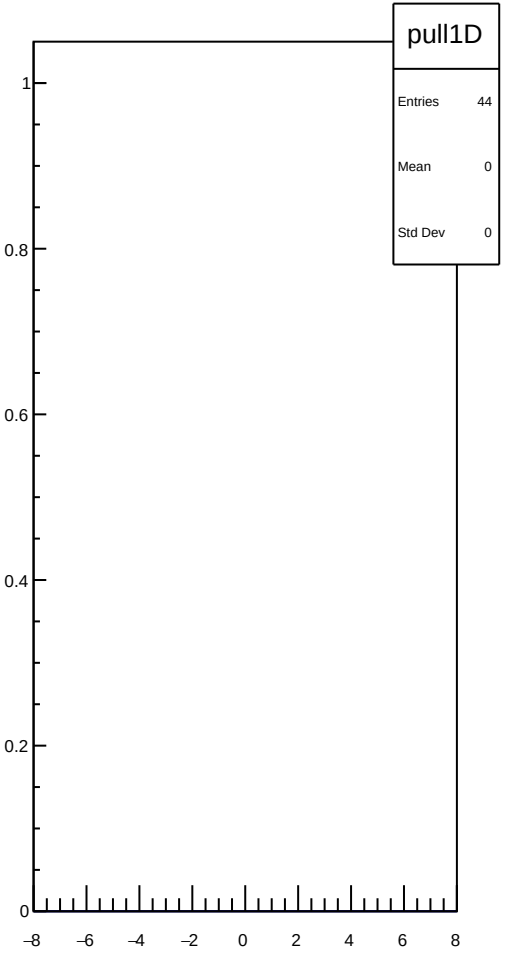

yield_bpm11X_rms vs run
χ² / ndf 1.011e+05 / 43
p0 0.02393 ± 2.654e–05
0.3
0.25
0.2
0.15
0.1
0.05
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

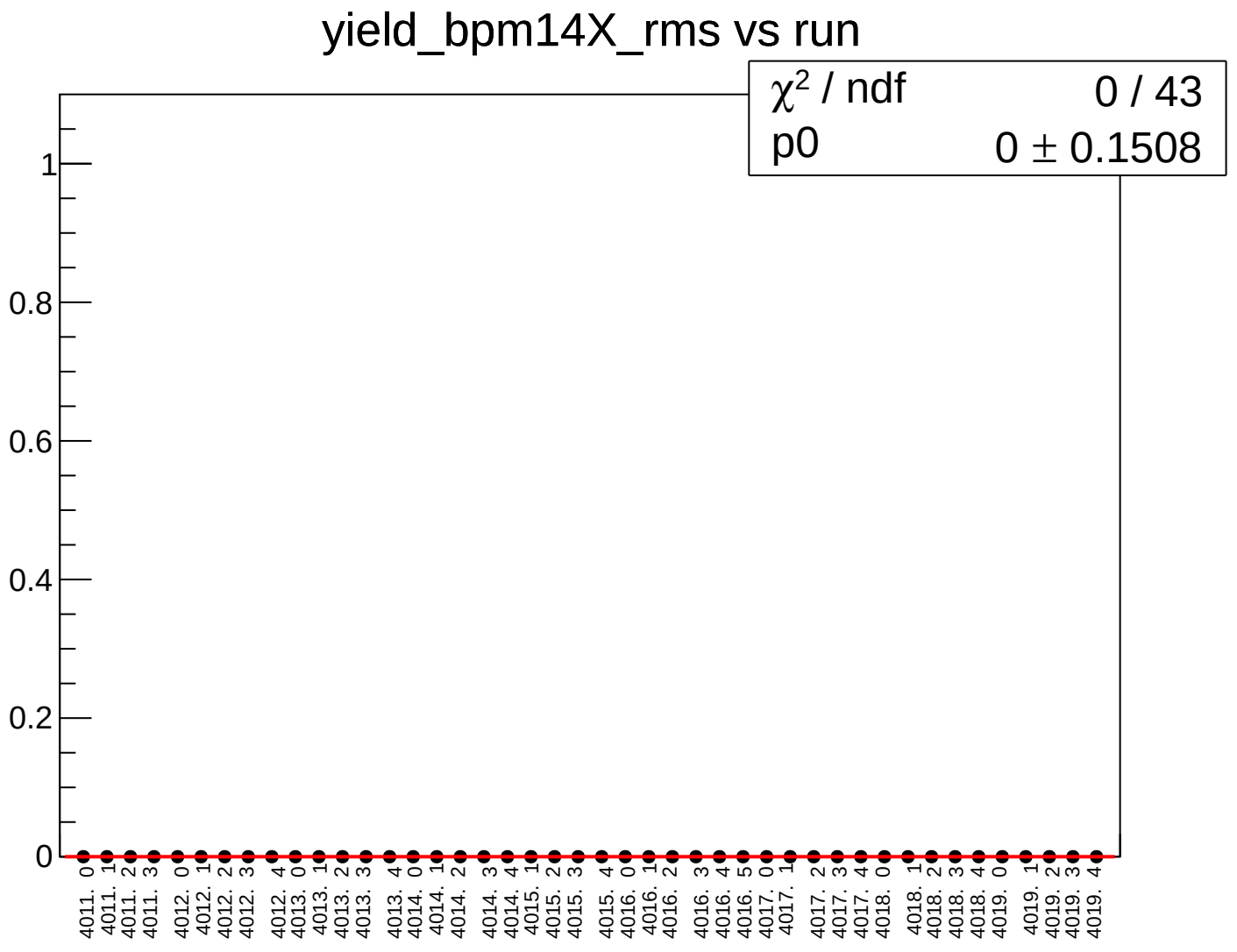

yield_bpm11Y_mean vs run
χ² / ndf 4.618e+08 / 43
p0 0.619 ± 7.276e−06
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −81.74
Std Dev 104.5
4000
2000
0
−2000
−4000
−6000

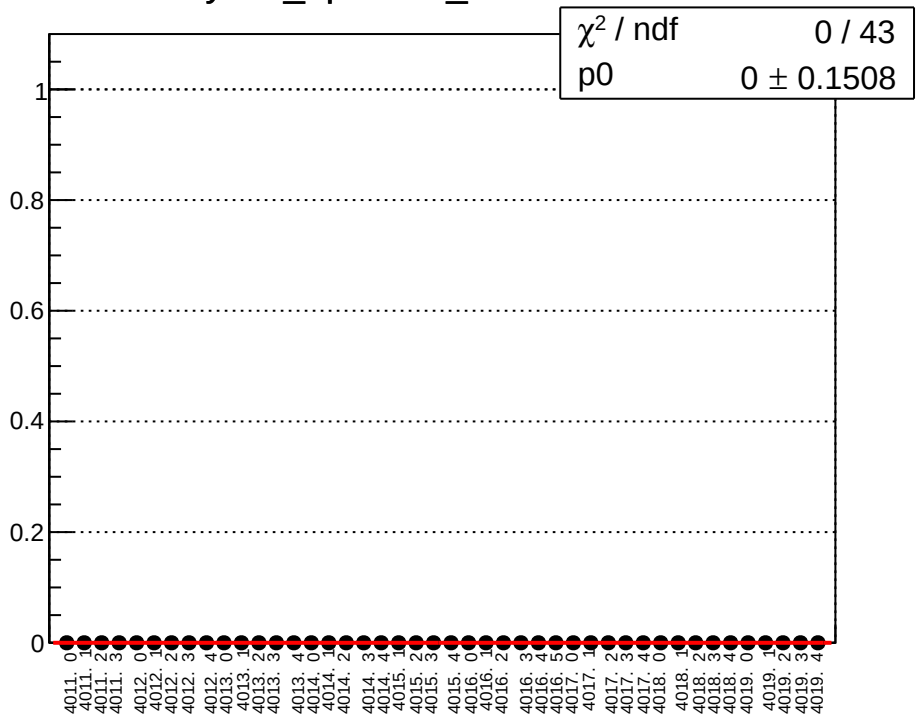

pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

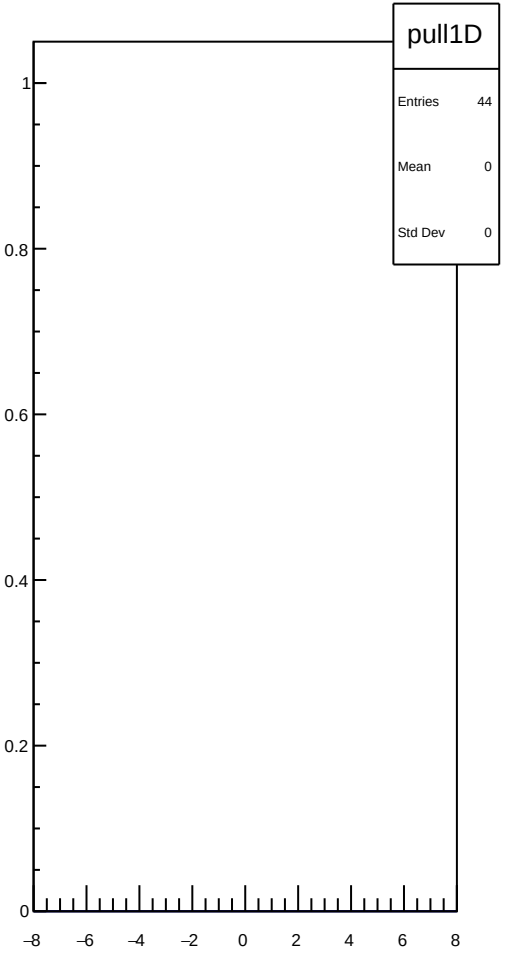

yield_bpm11Y_rms vs run
χ² / ndf 2.084e+05 / 43
p0 0.004321 ± 5.145e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

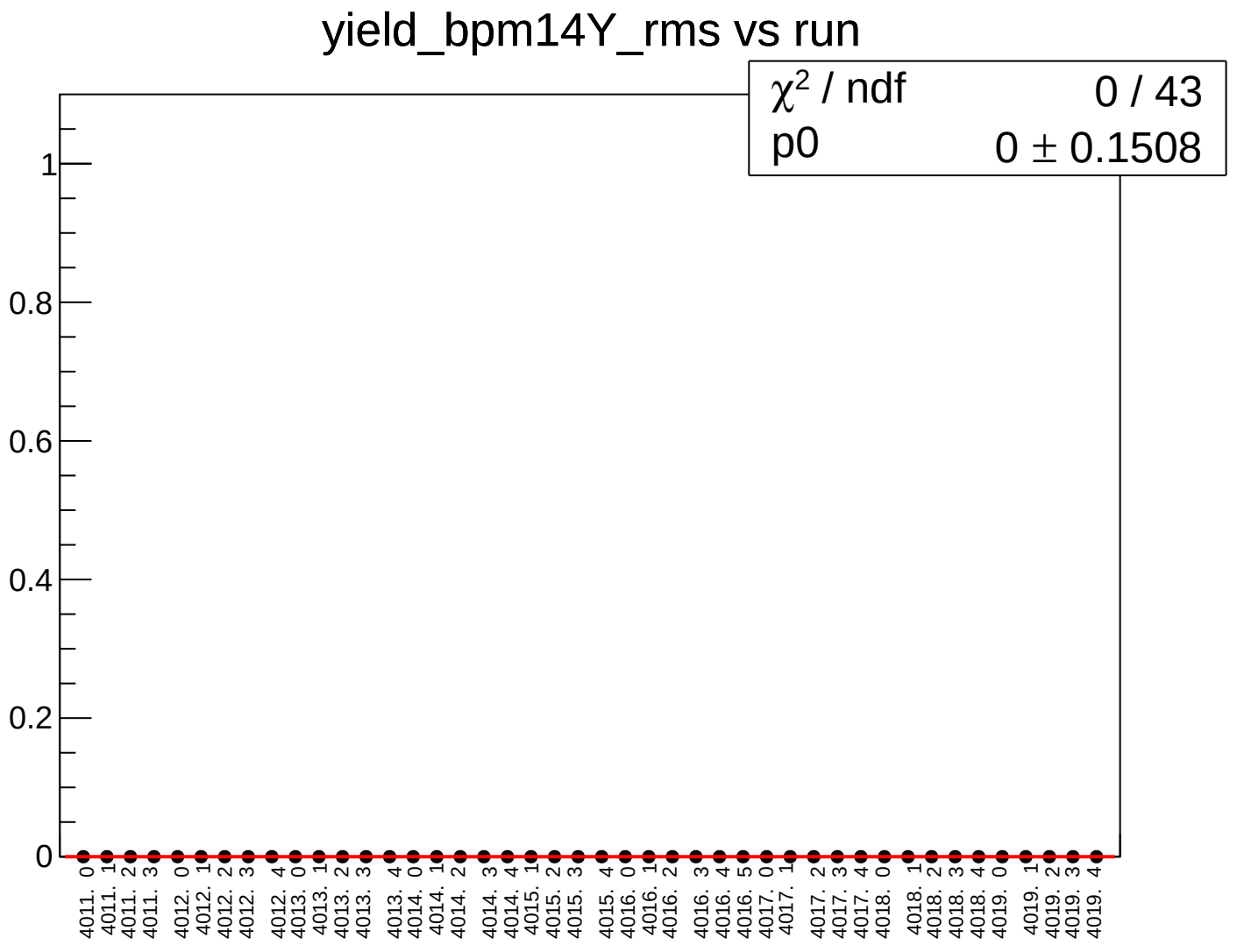

yield_bpm14X_mean vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

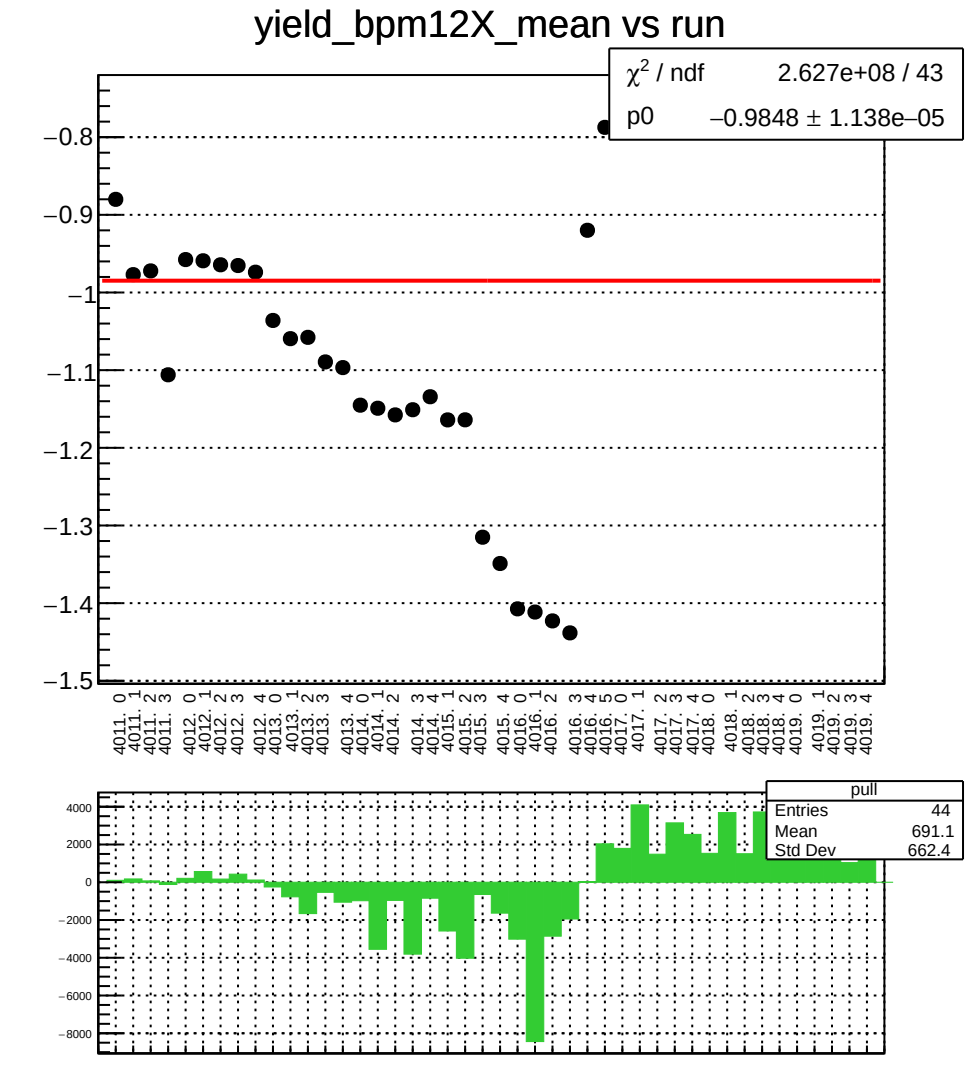

pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

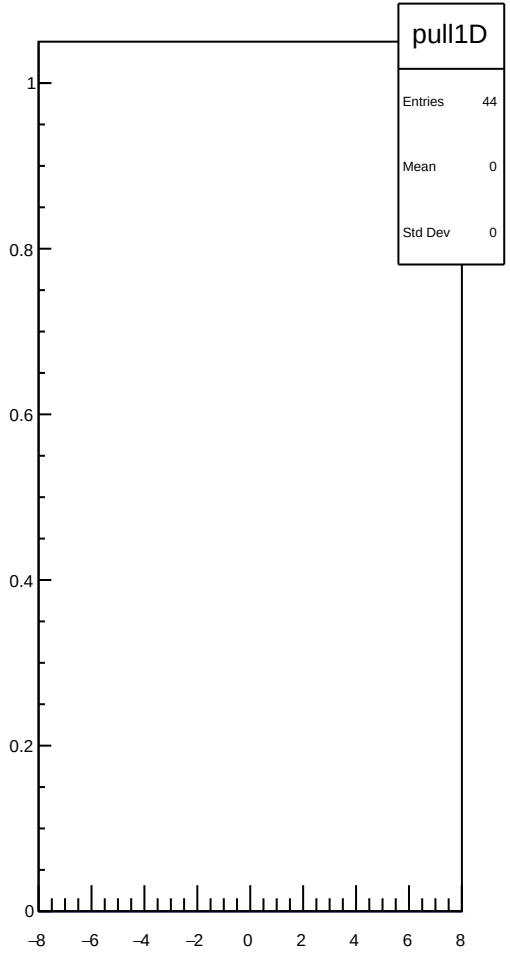

yield_bpm14X_rms vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

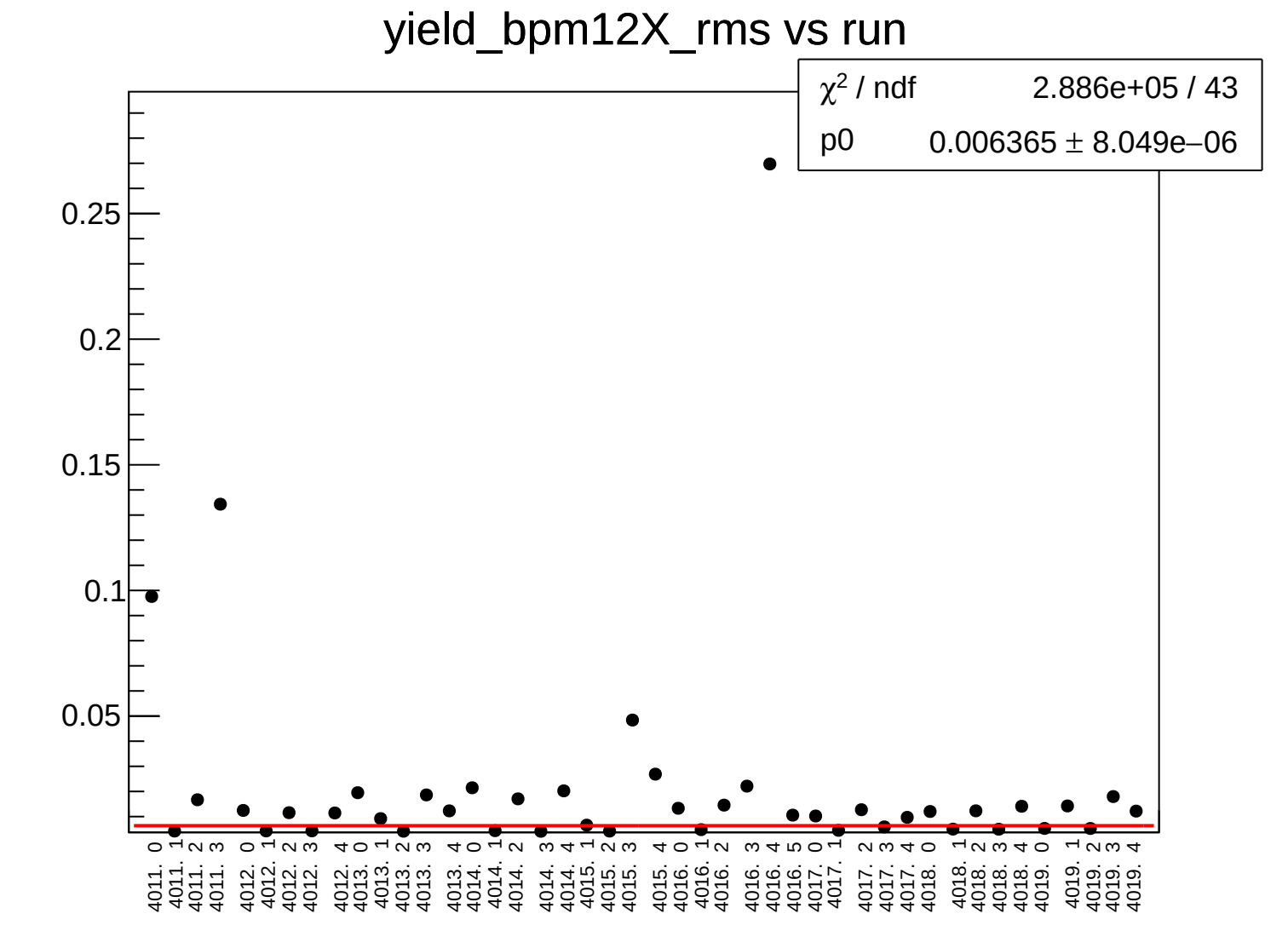

yield_bpm14Y_mean vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

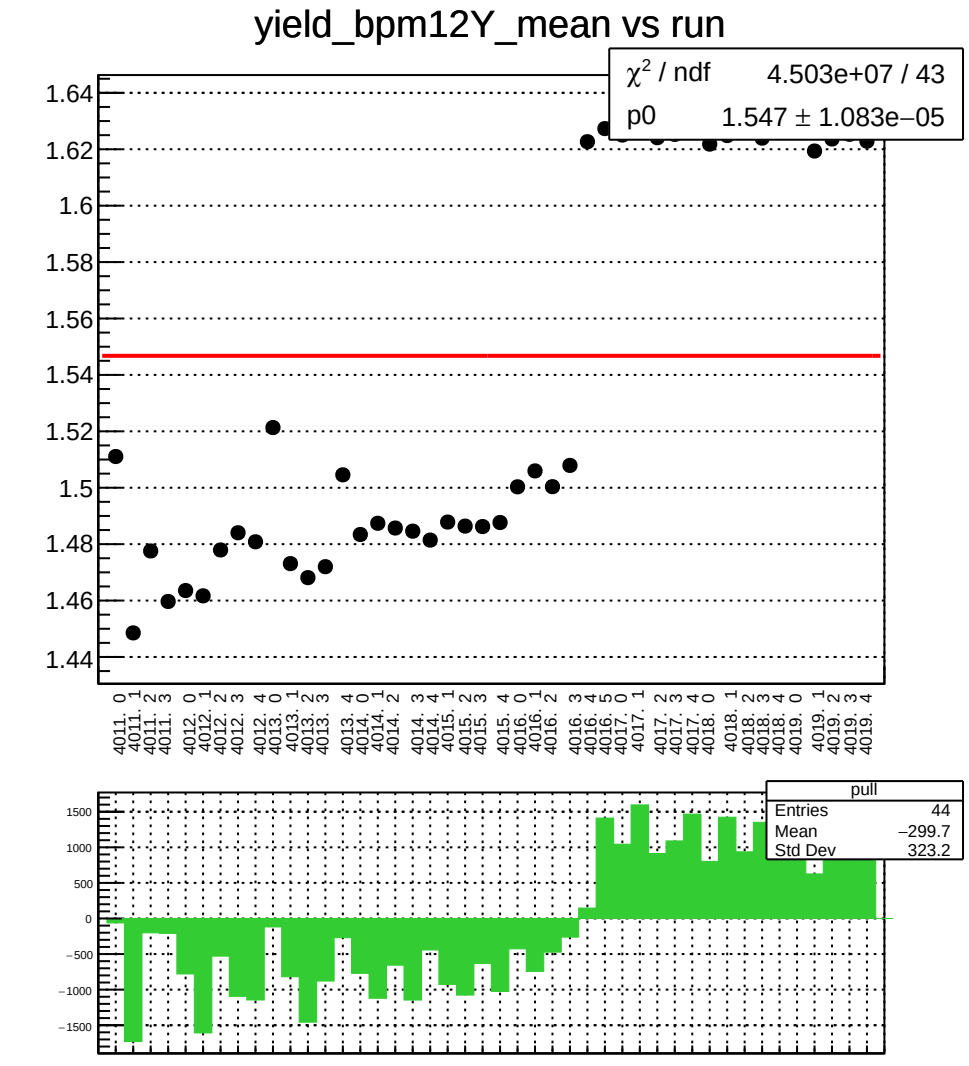

pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

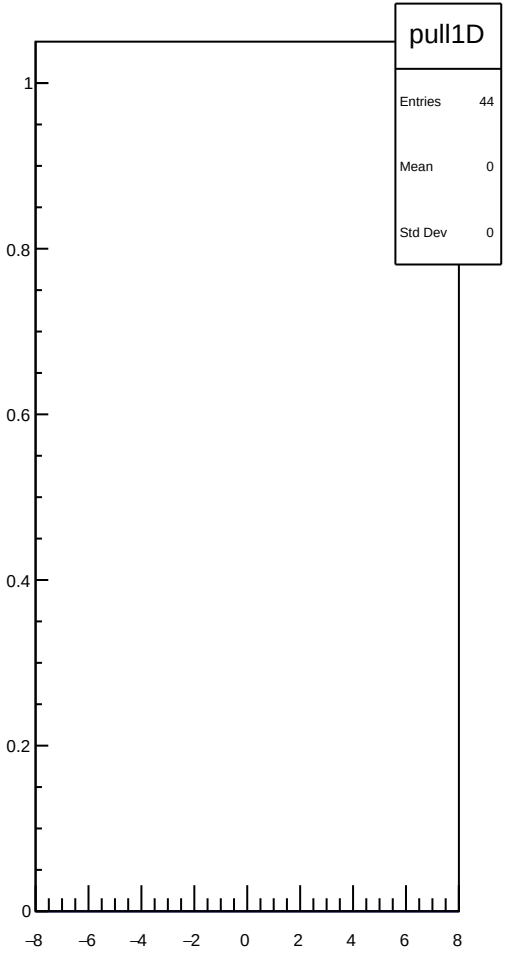

yield_bpm14Y_rms vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

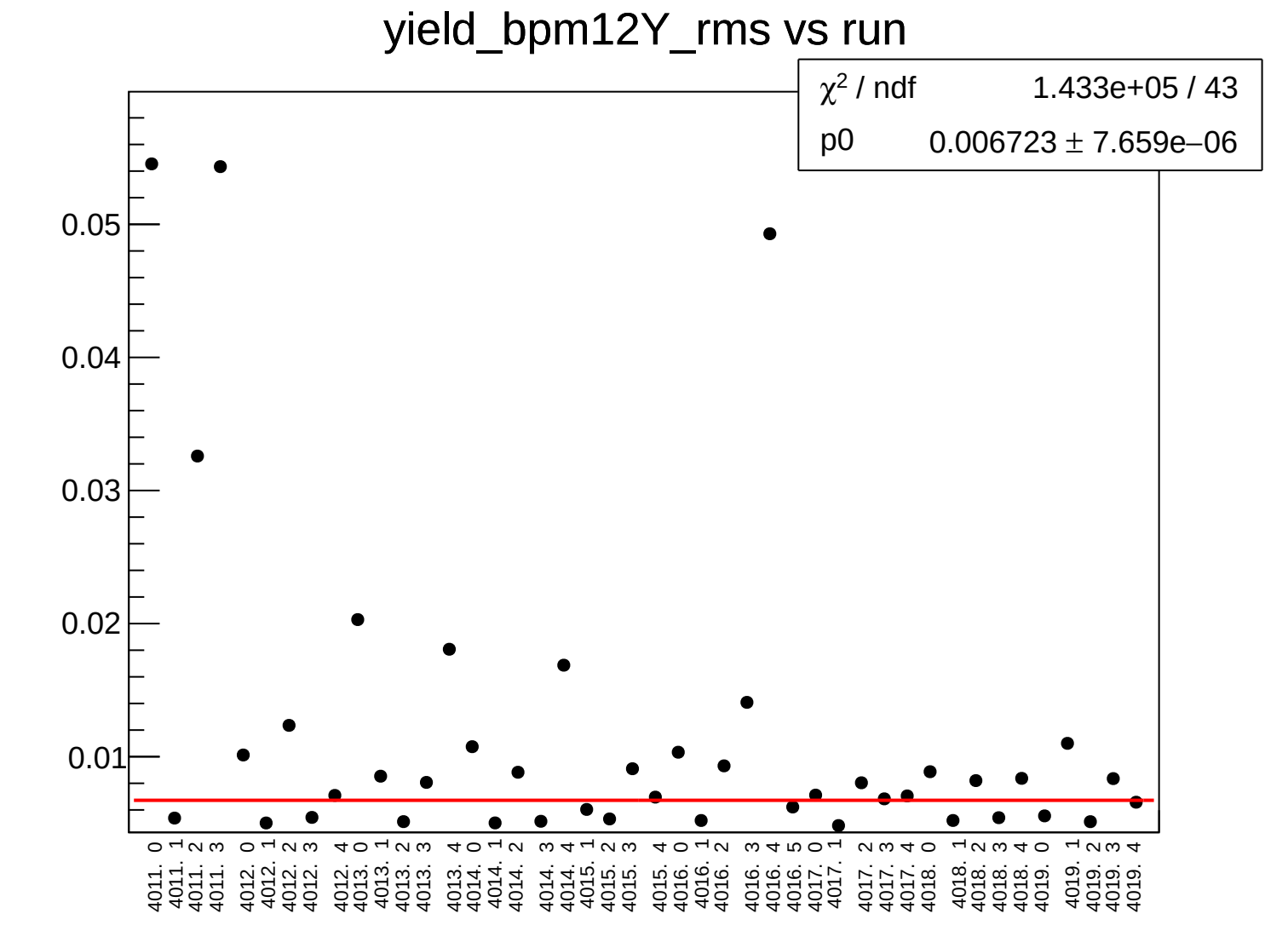

yield_bpm12X_mean vs run
χ² / ndf 2.627e+08 / 43
p0 −0.9848 ± 1.138e−05
pull
Entries 44
Mean 691.1
Std Dev 662.4

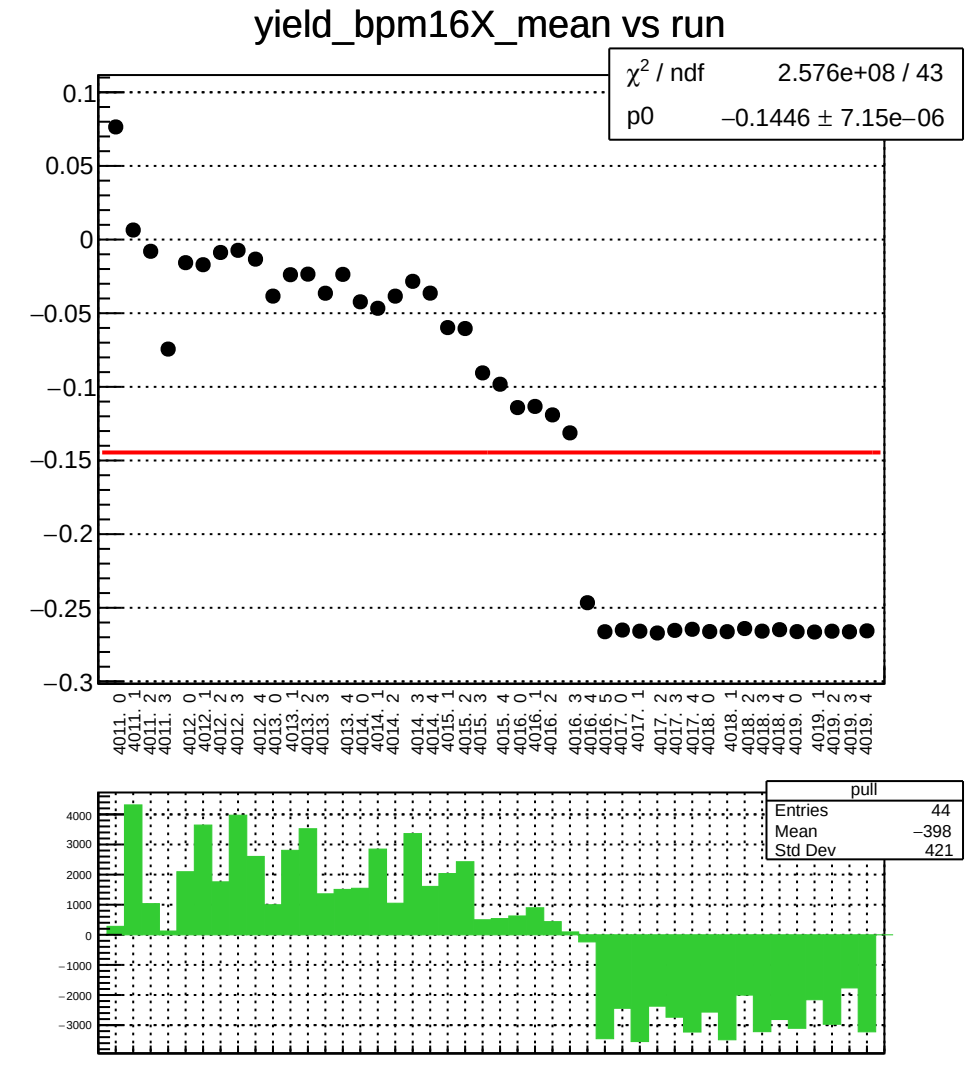

pull1D
Entries 44
Mean 0
Std Dev 0

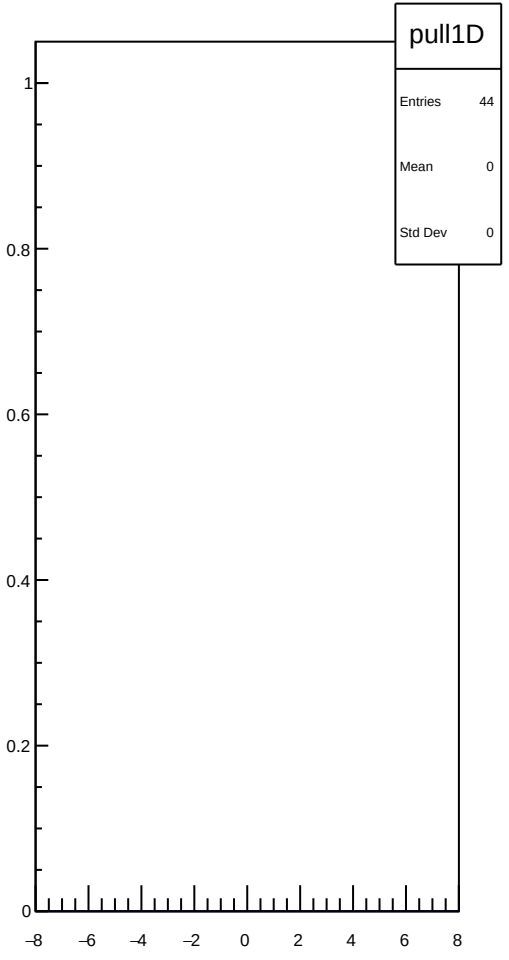

yield_bpm12X_rms vs run
χ² / ndf 2.886e+05 / 43
p0 0.006365 ± 8.049e−06
0.25
0.2
0.15
0.1
0.05
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

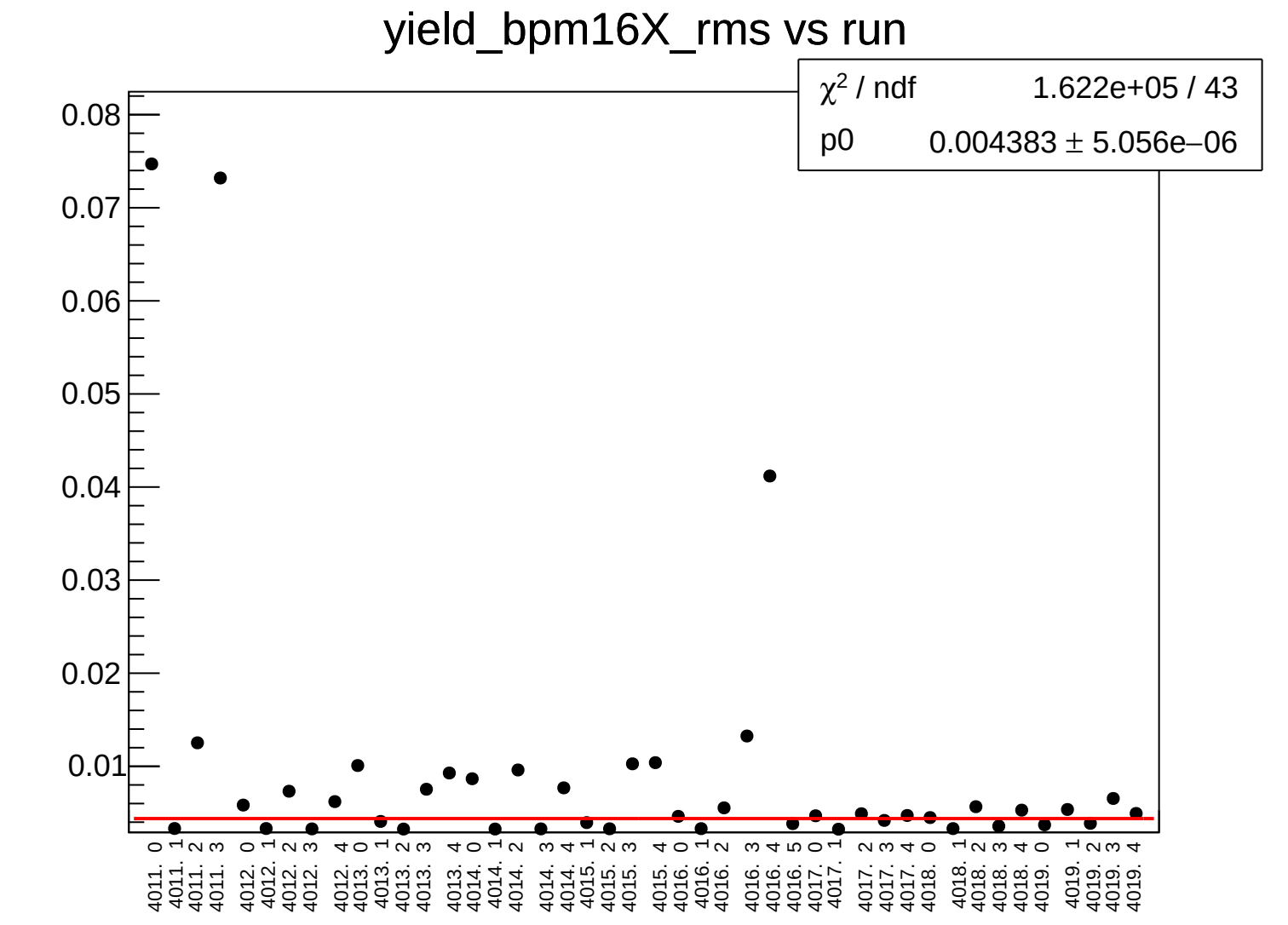

yield_bpm12Y_mean vs run
χ² / ndf 4.503e+07 / 43
p0 1.547 ± 1.083e−05
1.64
1.62
1.6
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −299.7
Std Dev 323.2
1500
1000
500
0
−500
−1000
−1500

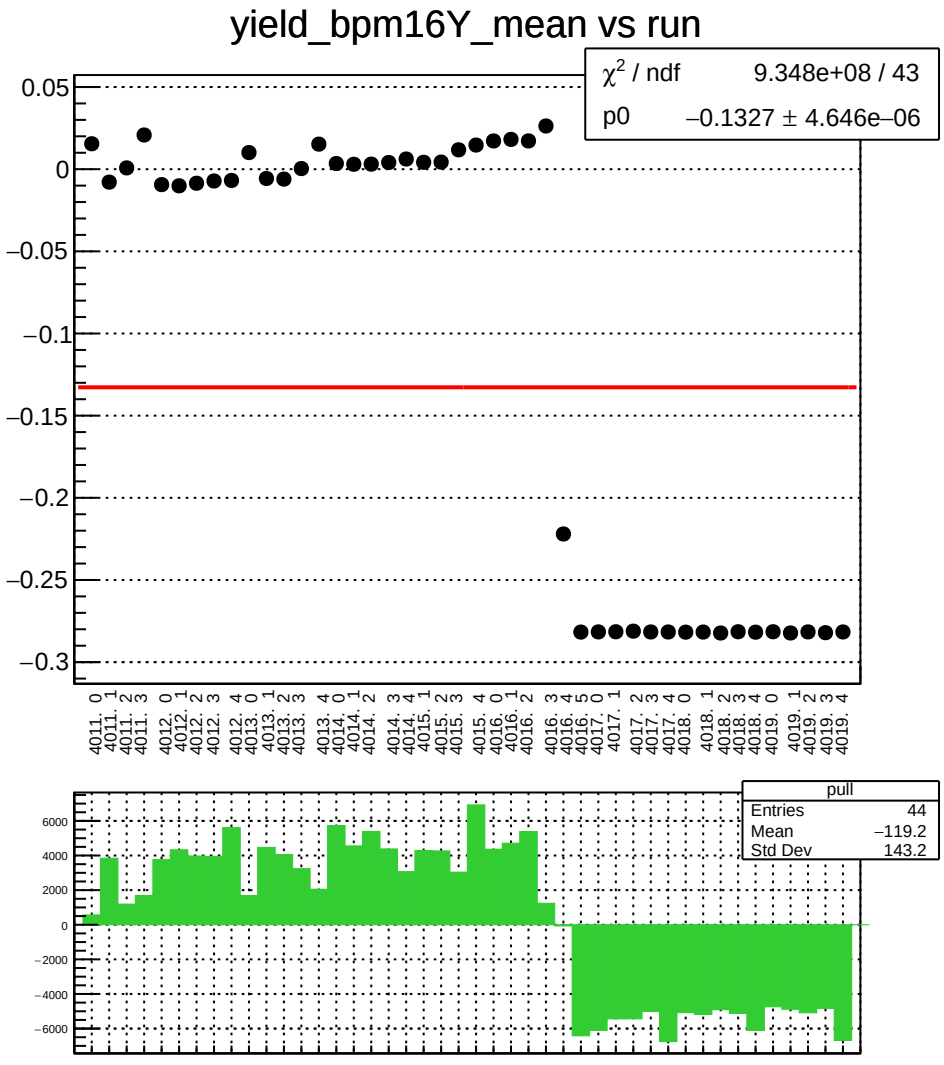

pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

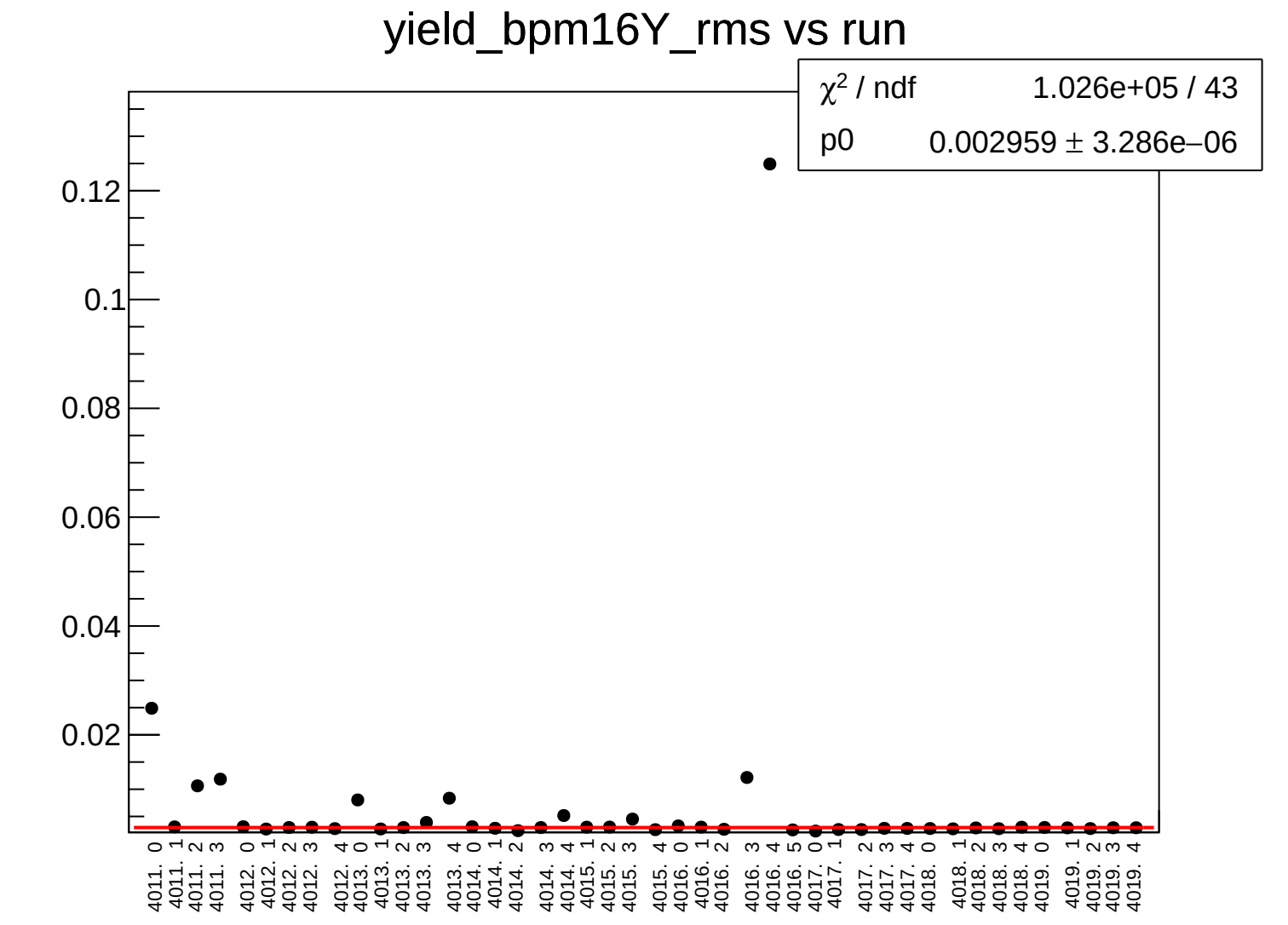

yield_bpm12Y_rms vs run
χ² / ndf 1.433e+05 / 43
p0 0.006723 ± 7.659e−06
0.05
0.04
0.03
0.02
0.01
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

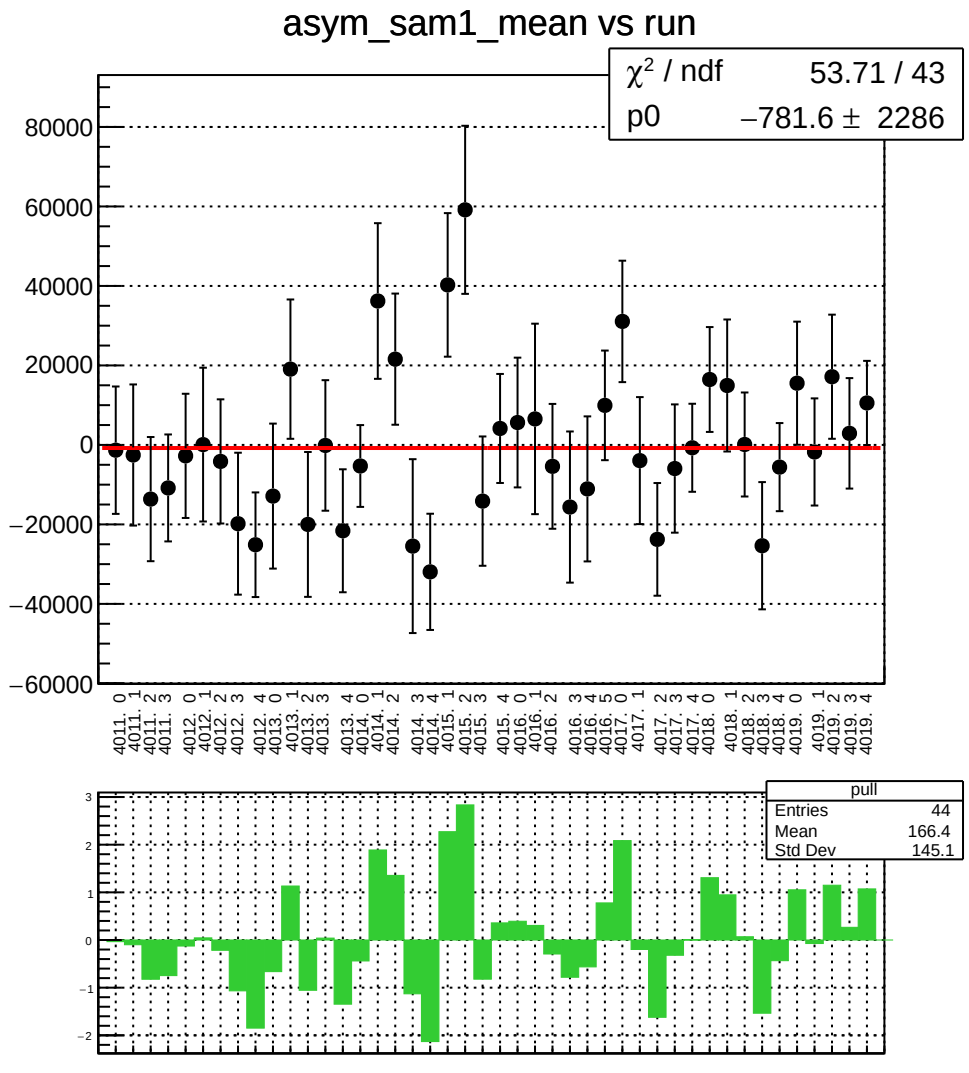

yield_bpm16X_mean vs run
χ² / ndf 2.576e+08 / 43
p0 −0.1446 ± 7.15e−06
pull
Entries 44
Mean −398
Std Dev 421

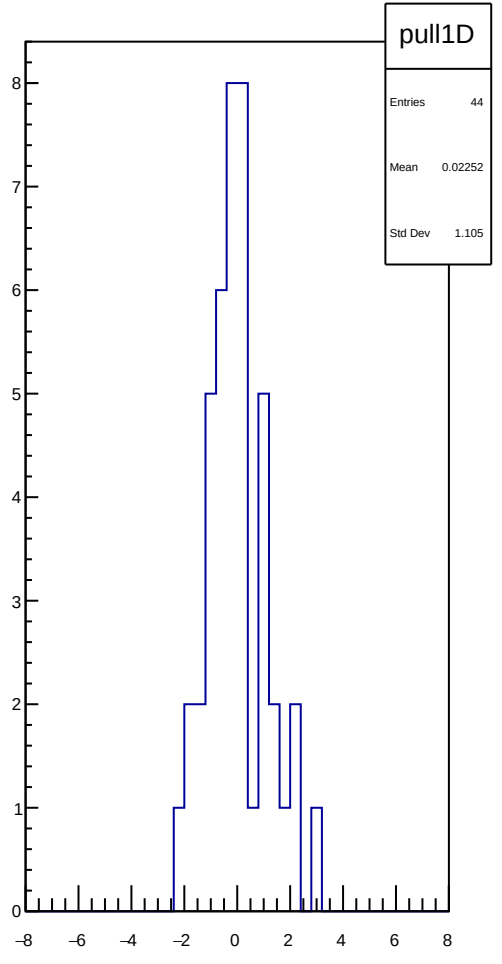

pull1D
Entries 44
Mean 0
Std Dev 0

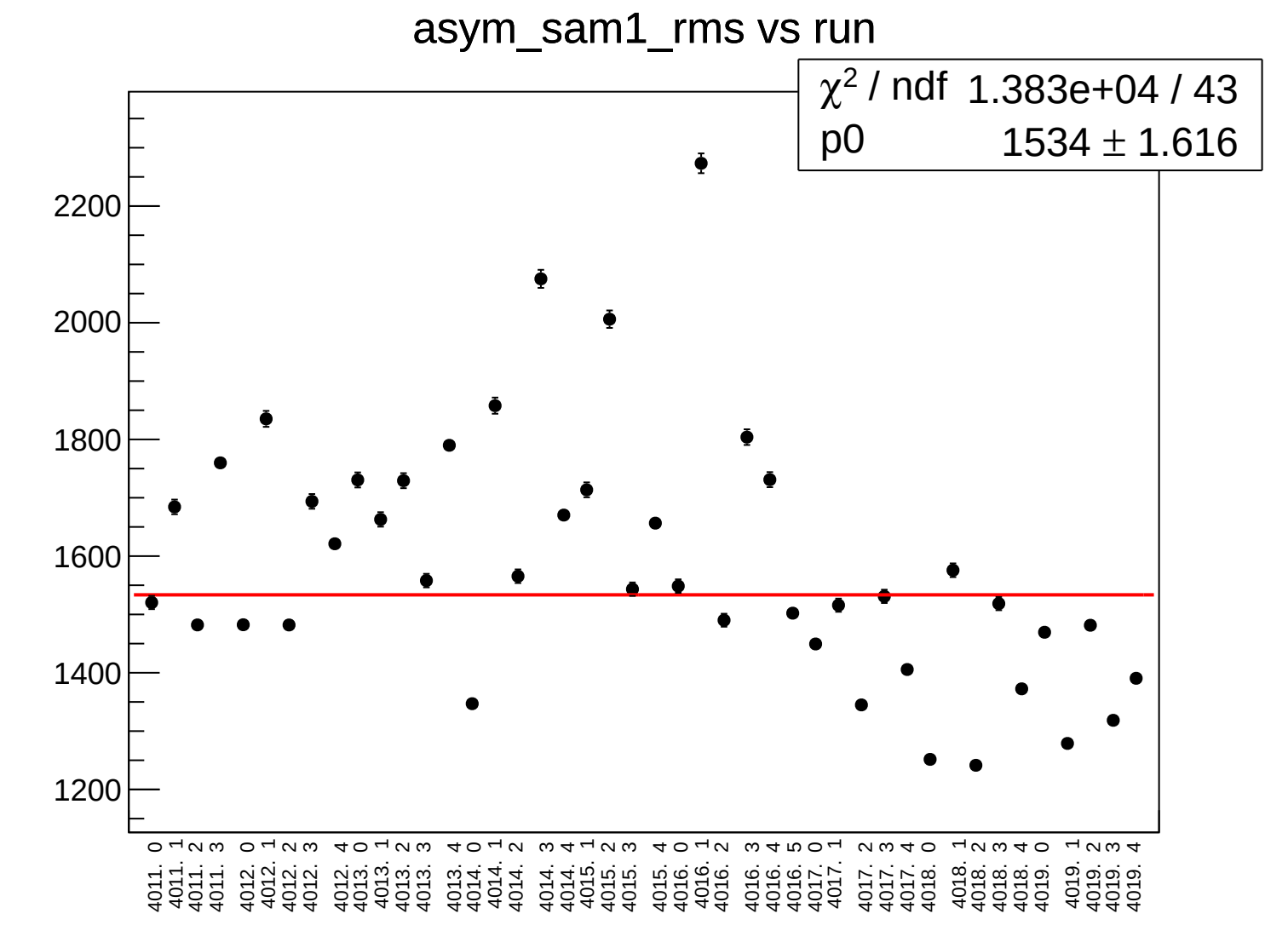

yield_bpm16X_rms vs run
χ² / ndf 1.622e+05 / 43
p0 0.004383 ± 5.056e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

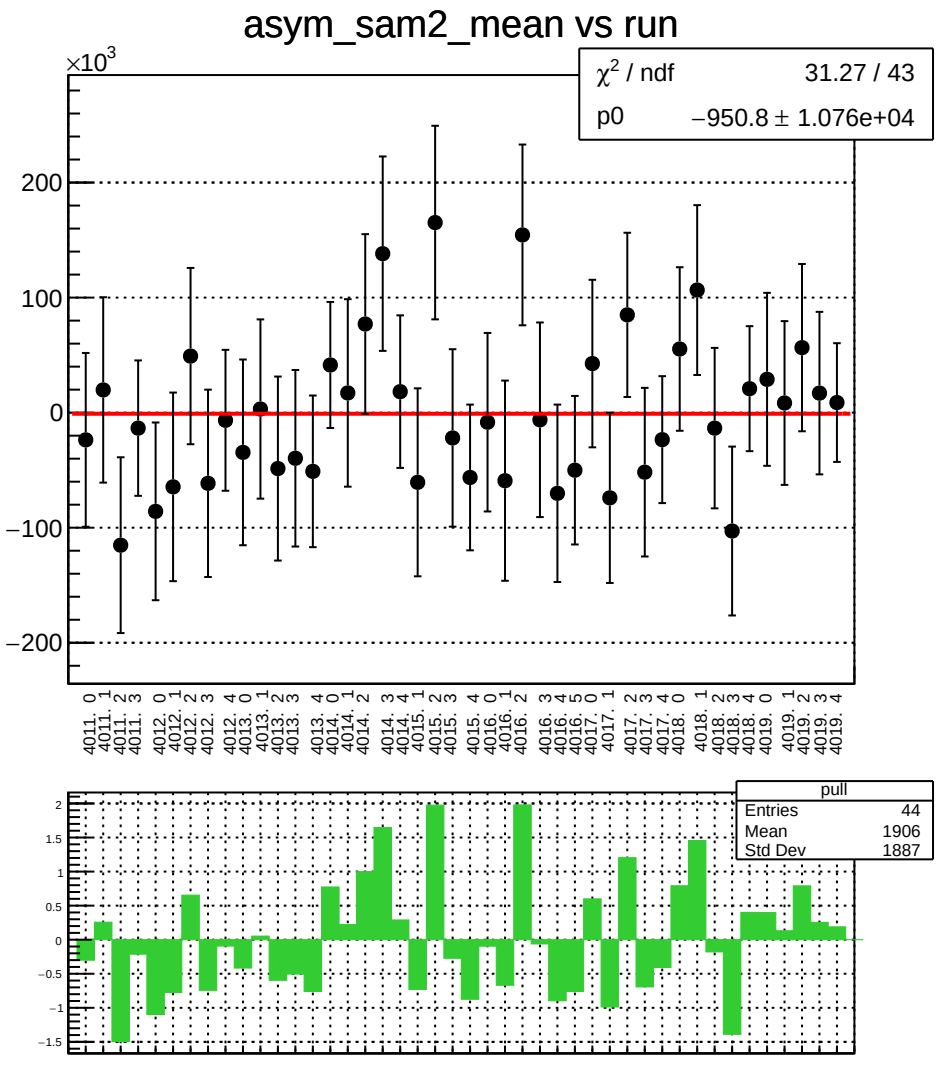

yield_bpm16Y_mean vs run
χ² / ndf 9.348e+08 / 43
p0 −0.1327 ± 4.646e−06
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −119.2
Std Dev 143.2
6000
4000
2000
0
−2000
−4000
−6000
pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

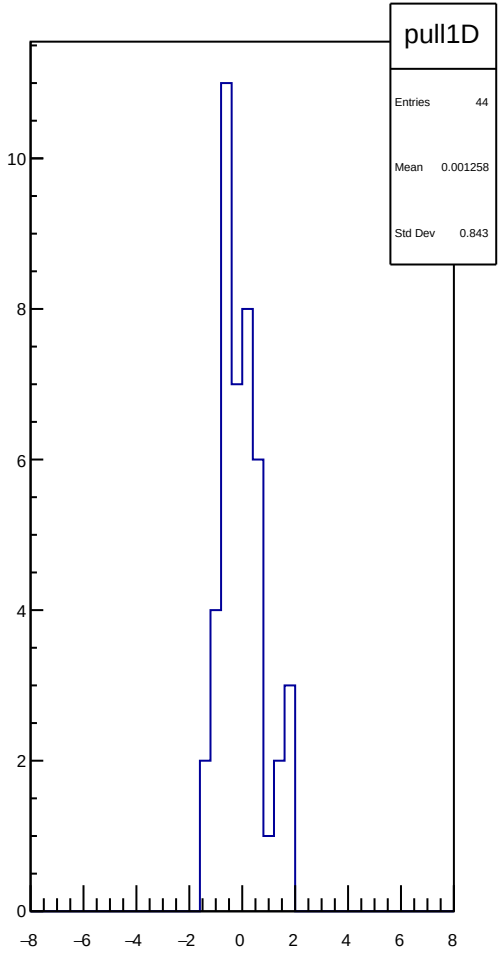

yield_bpm16Y_rms vs run
χ² / ndf 1.026e+05 / 43
p0 0.002959 ± 3.286e−06
0.12
0.1
0.08
0.06
0.04
0.02
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

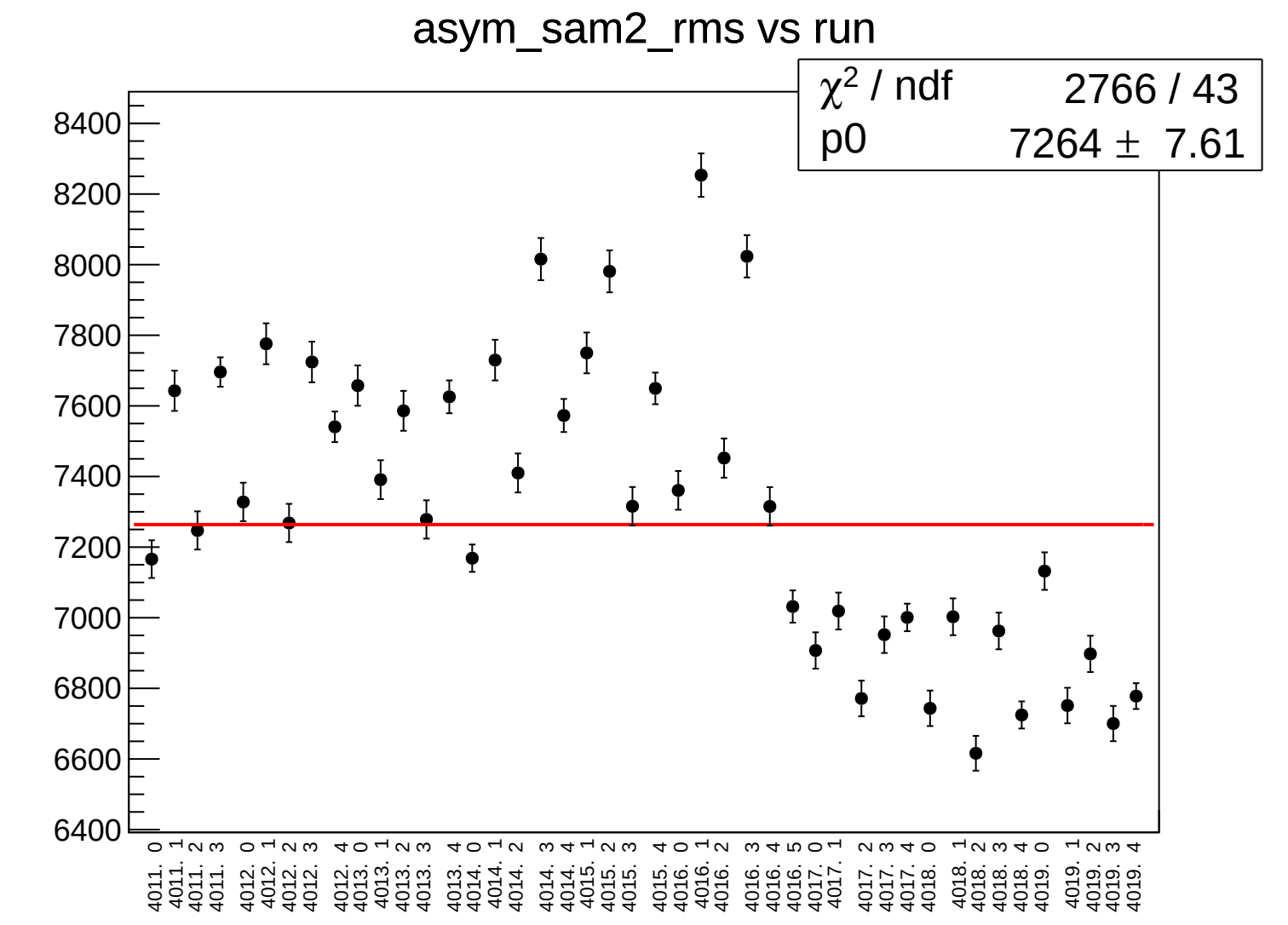

asym_sam1_mean vs run
χ² / ndf 53.71 / 43
p0 −781.6 ± 2286
80000
60000
40000
20000
0
−20000
−40000
−60000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 166.4
Std Dev 145.1
3
2
1
0
−1
−2

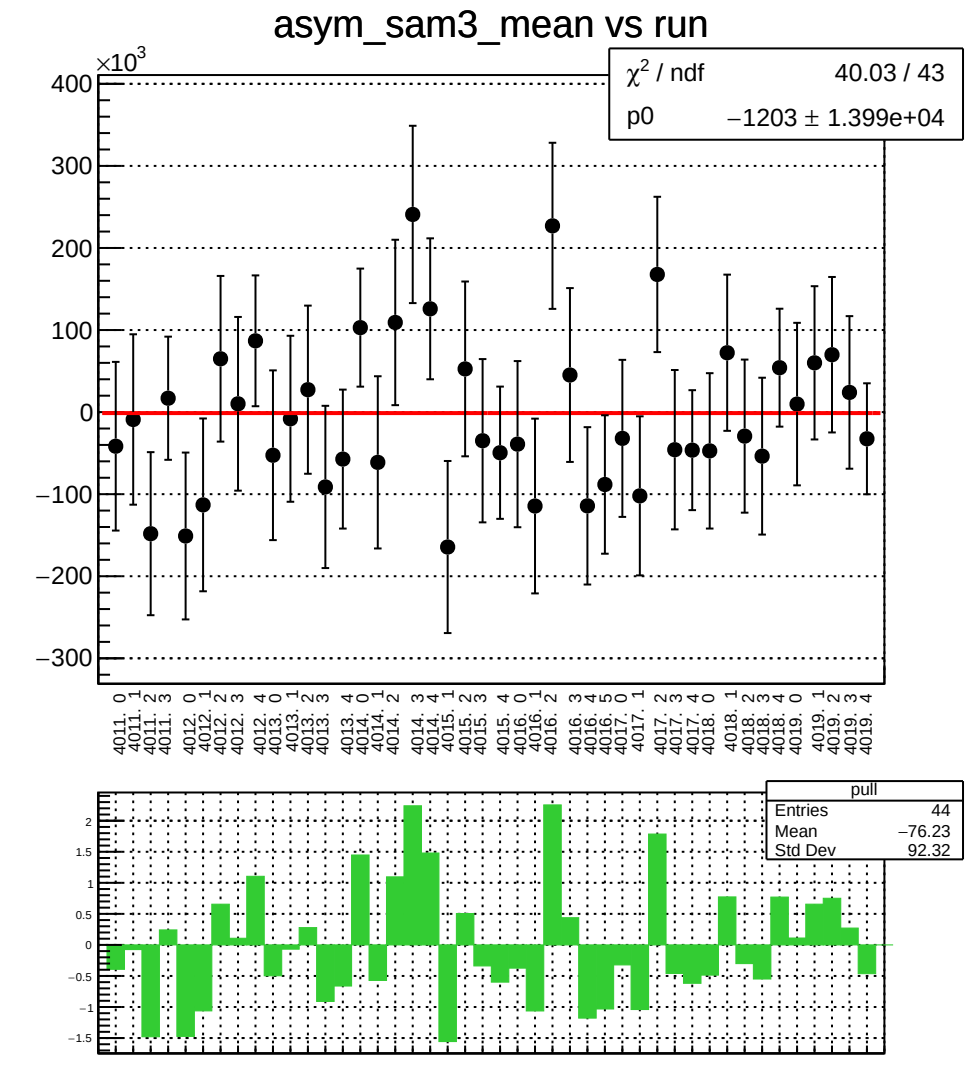

pull1D
Entries 44
Mean 0.02252
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

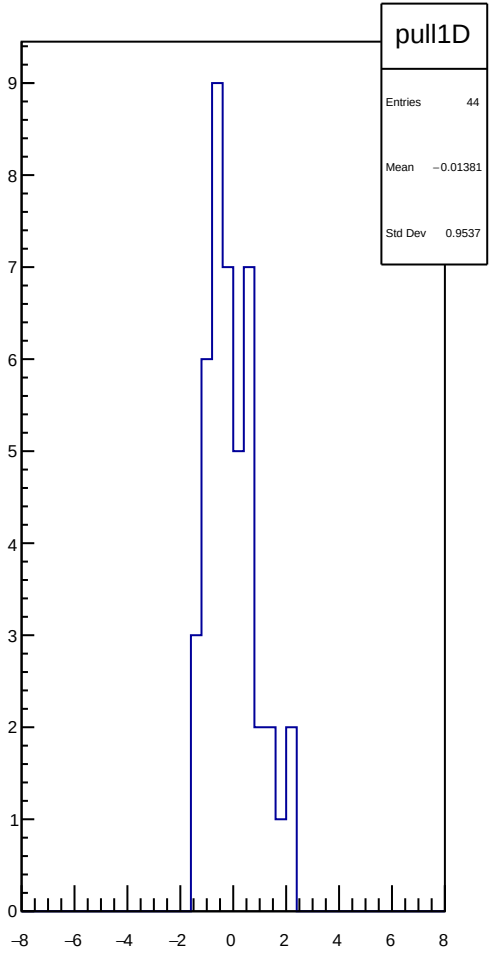

asym_sam1_rms vs run
χ² / ndf 1.383e+04 / 43
p0 1534 ± 1.616
2200
2000
1800
1600
1400
1200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

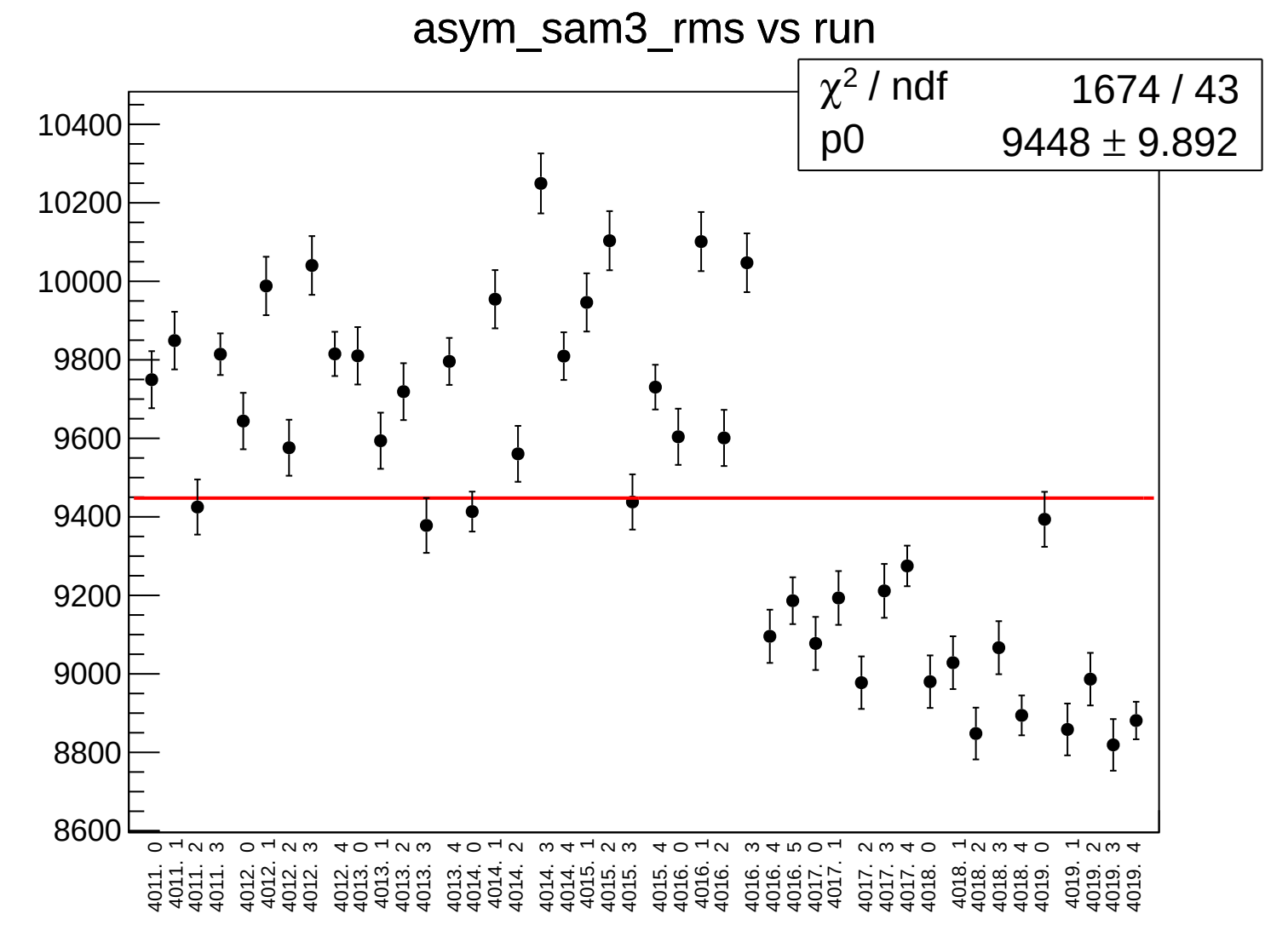

asym_sam2_mean vs run
×10^3
χ² / ndf 31.27 / 43
p0 −950.8 ± 1.076e+04
200
100
0
−100
−200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4016. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 1906
Std Dev 1887
2
1.5
1
0.5
0
−0.5
−1
−1.5

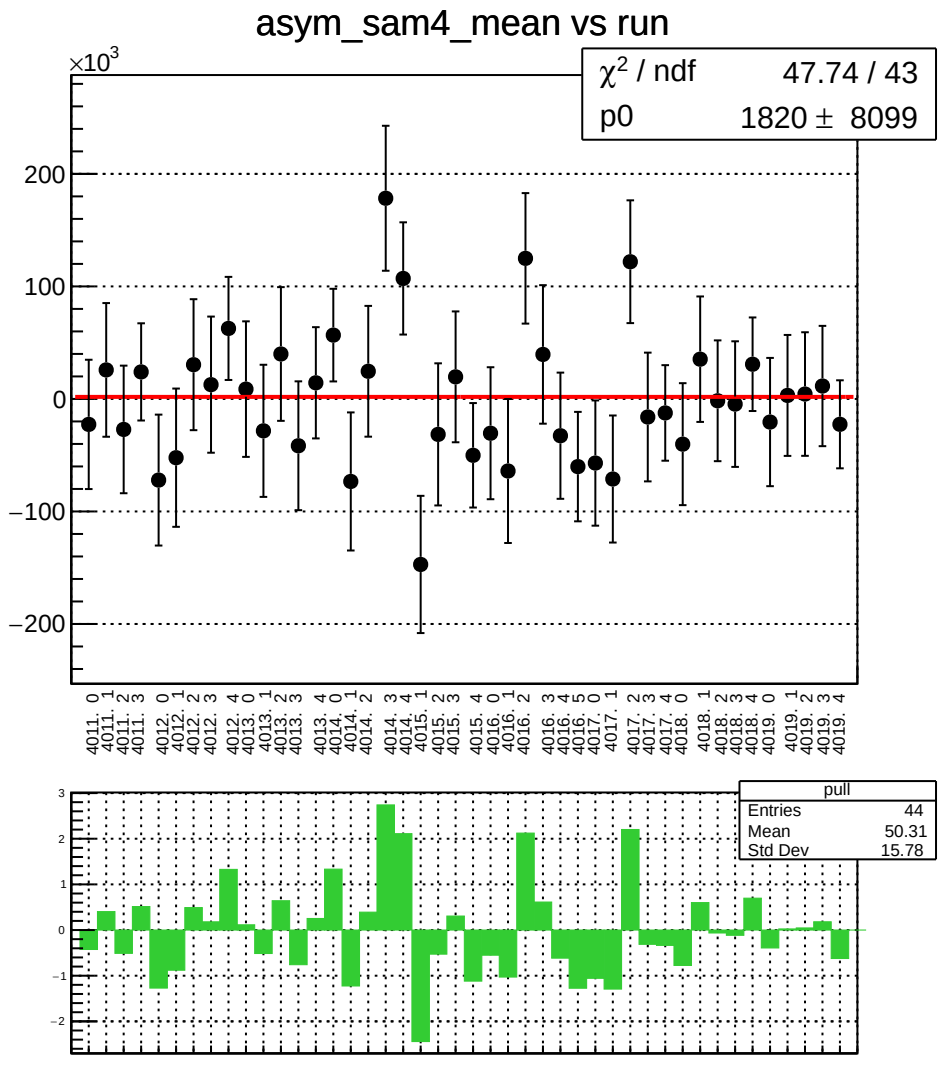

pull1D
Entries 44
Mean 0.001258
Std Dev 0.843
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

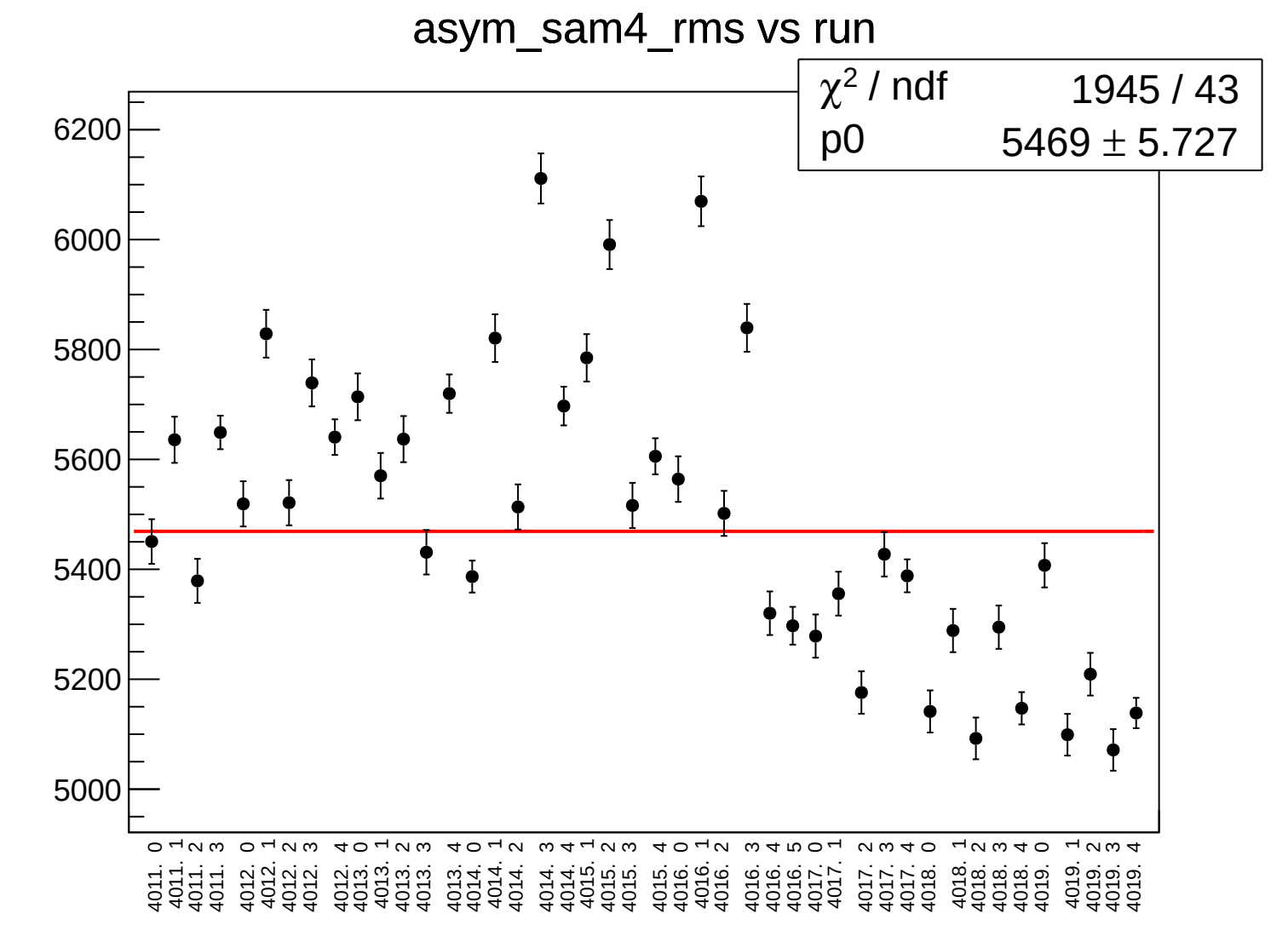

asym_sam2_rms vs run
χ² / ndf 2766 / 43
p0 7264 ± 7.61
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

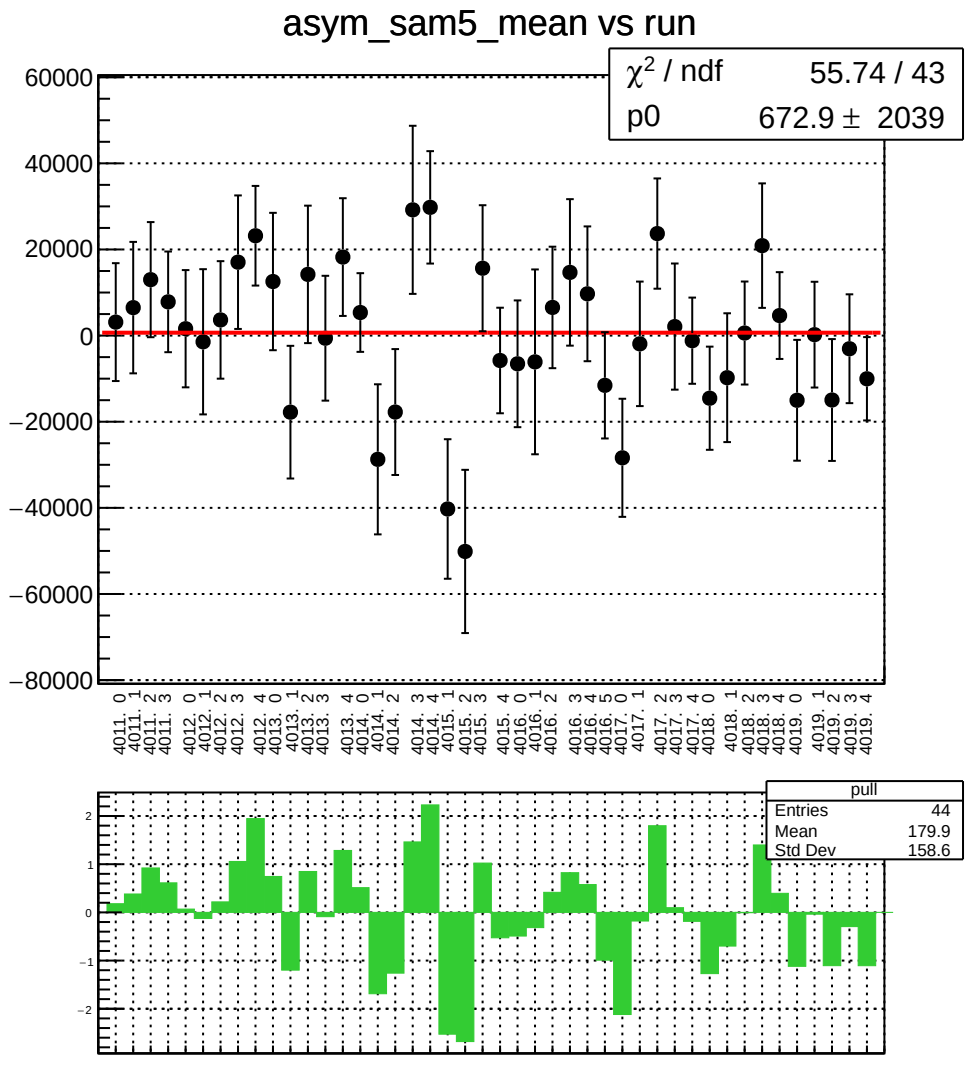

asym_sam3_mean vs run
×10^3
χ² / ndf 40.03 / 43
p0 −1203 ± 1.399e+04
pull
Entries 44
Mean −76.23
Std Dev 92.32

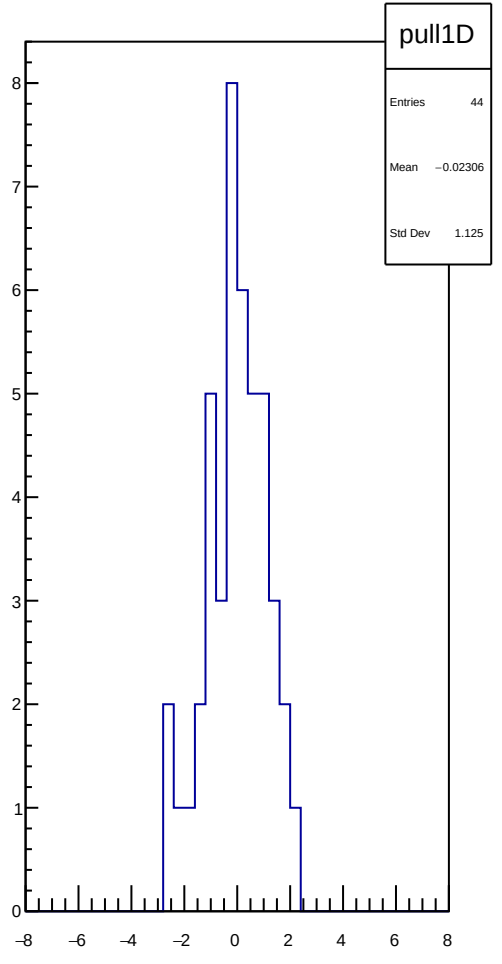

pull1D
Entries 44
Mean −0.01381
Std Dev 0.9537

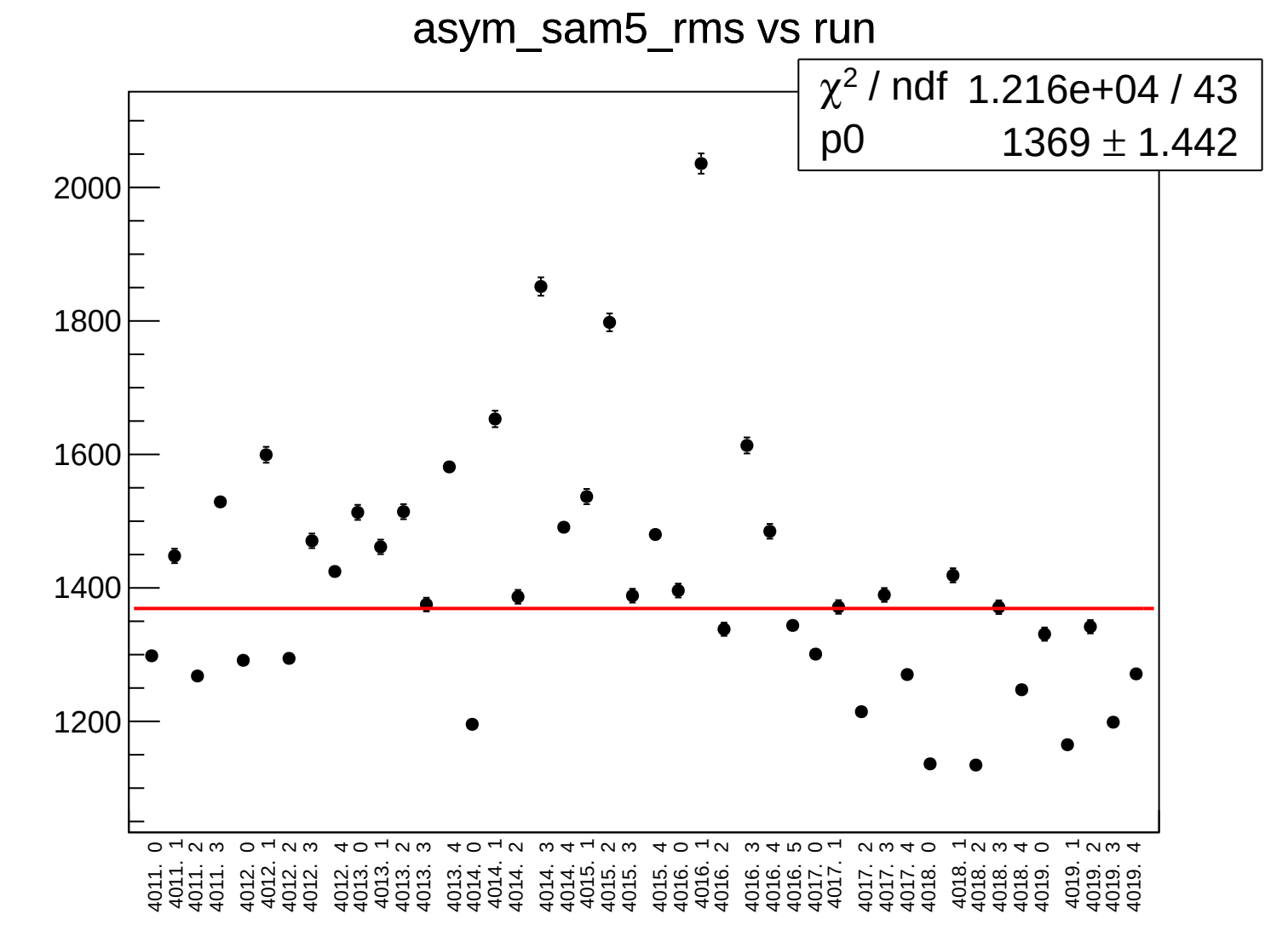

asym_sam3_rms vs run
χ^2 / ndf 1674 / 43
p0 9448 ± 9.892
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

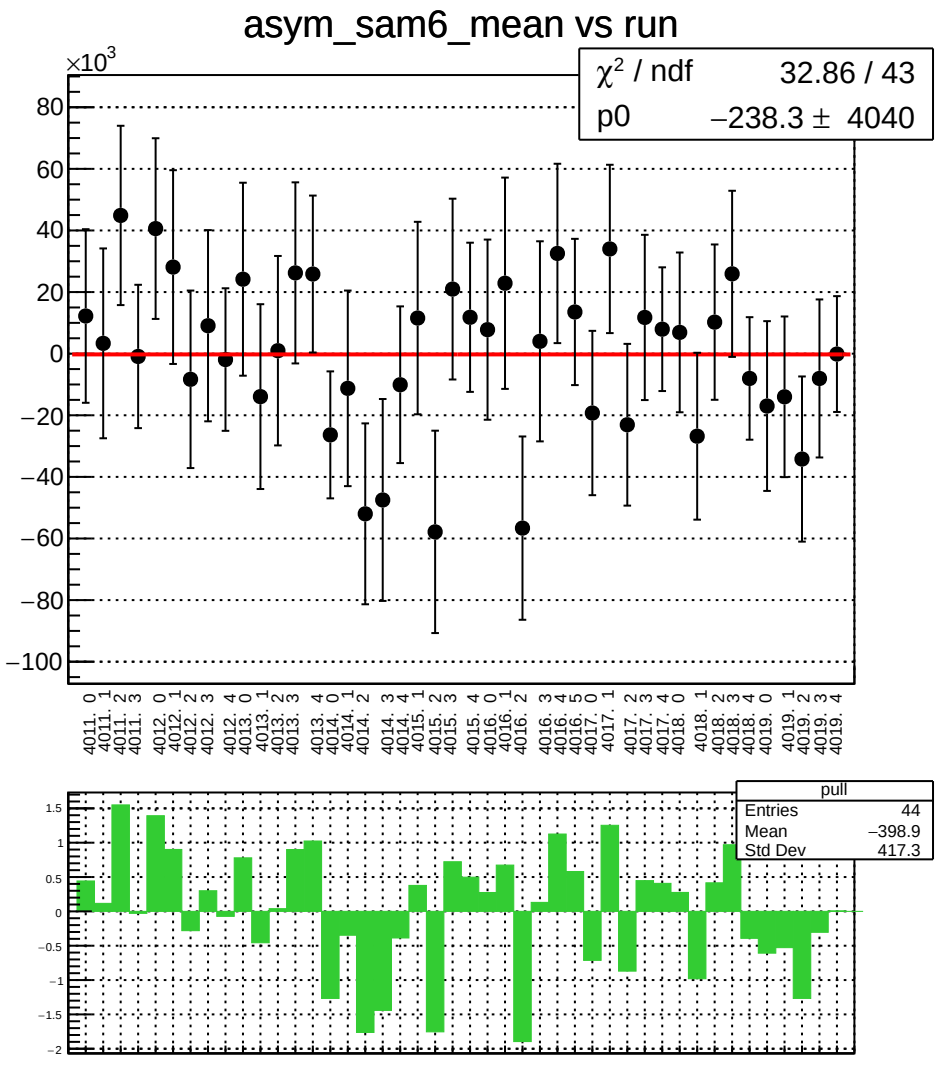

asym_sam4_mean vs run
×10^3
χ² / ndf 47.74 / 43
p0 1820 ± 8099
200
100
0
−100
−200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 50.31
Std Dev 15.78
3
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.0185
Std Dev 1.042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

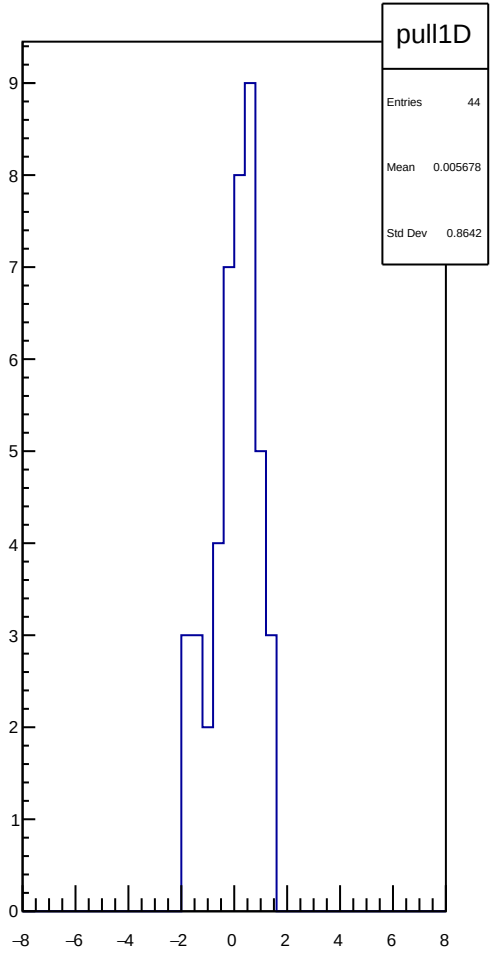

asym_sam4_rms vs run
χ² / ndf 1945 / 43
p0 5469 ± 5.727
6200
6000
5800
5600
5400
5200
5000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

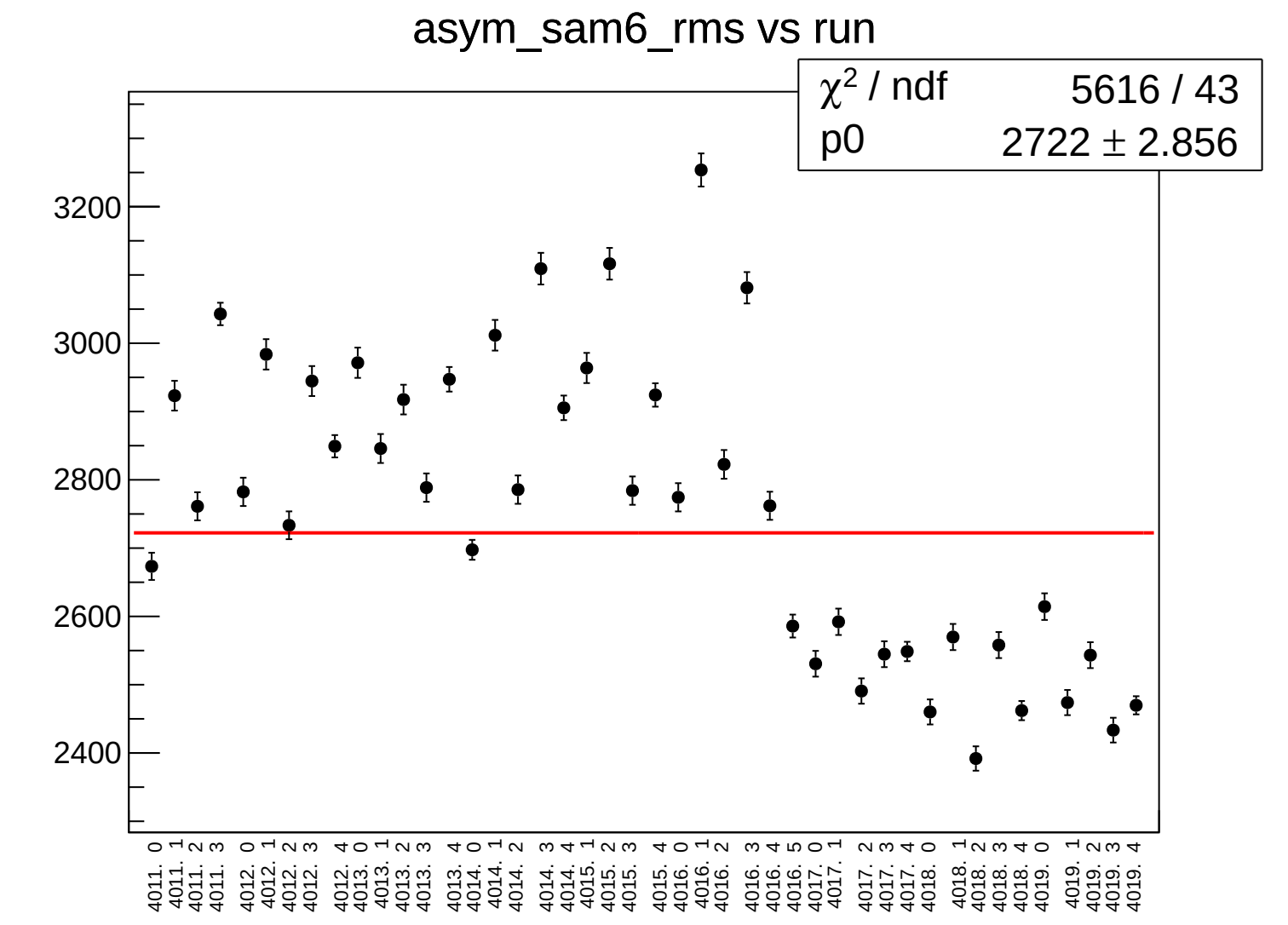

asym_sam5_mean vs run
χ² / ndf 55.74 / 43
p0 672.9 ± 2039
60000
40000
20000
0
−20000
−40000
−60000
−80000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 179.9
Std Dev 158.6
2
1
0
−1
−2

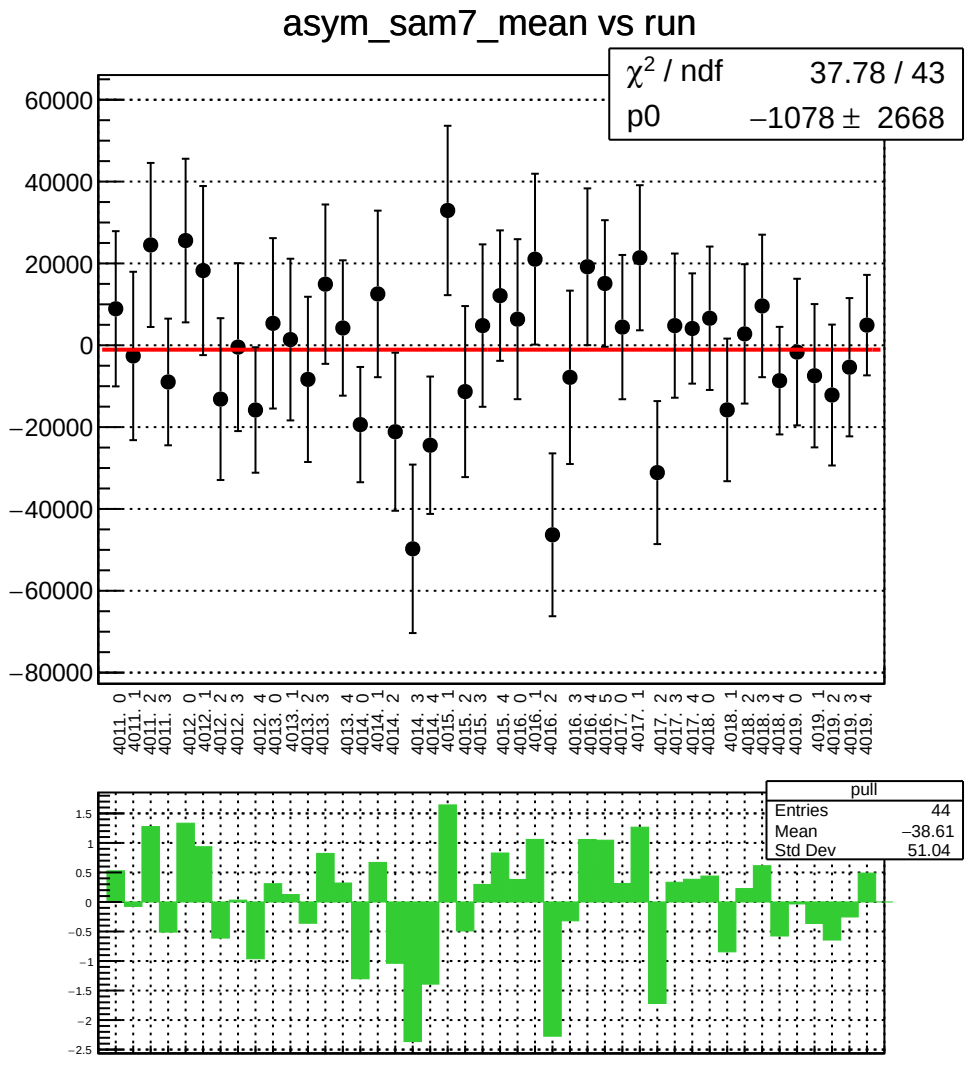

pull1D
Entries 44
Mean −0.02306
Std Dev 1.125
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

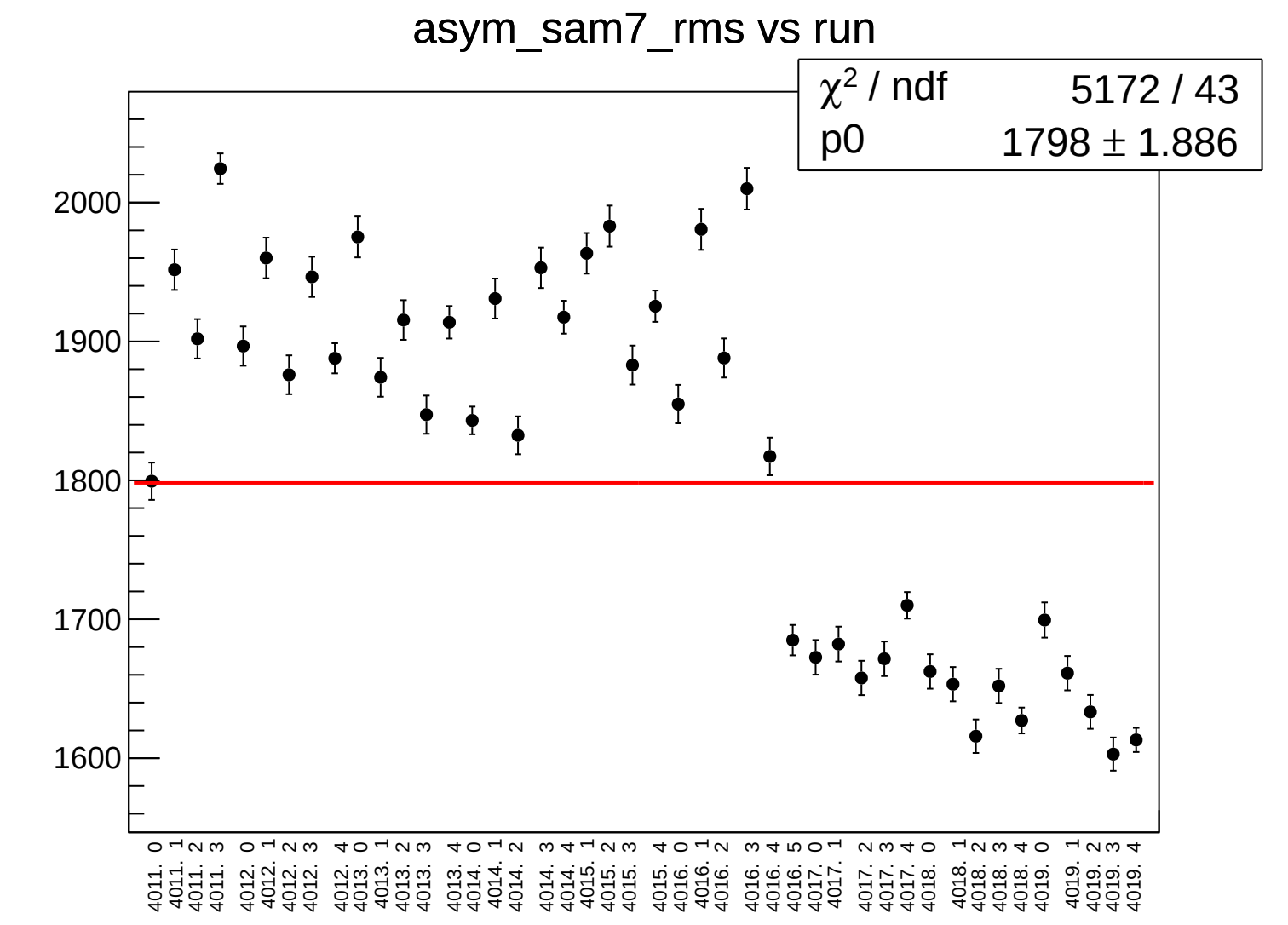

asym_sam5_rms vs run
χ^2 / ndf 1.216e+04 / 43
p0 1369 ± 1.442
2000
1800
1600
1400
1200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

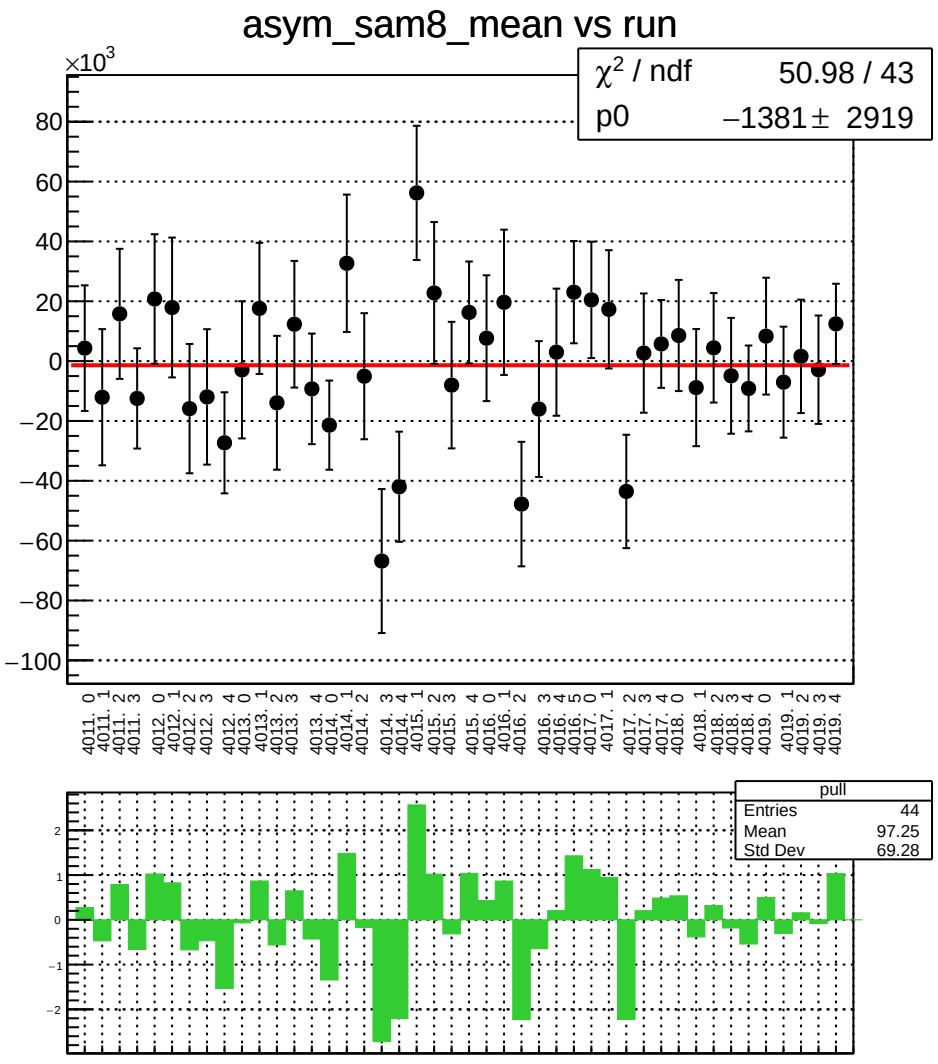

asym_sam6_mean vs run
×10^3
χ² / ndf 32.86 / 43
p0 −238.3 ± 4040
pull
Entries 44
Mean −398.9
Std Dev 417.3

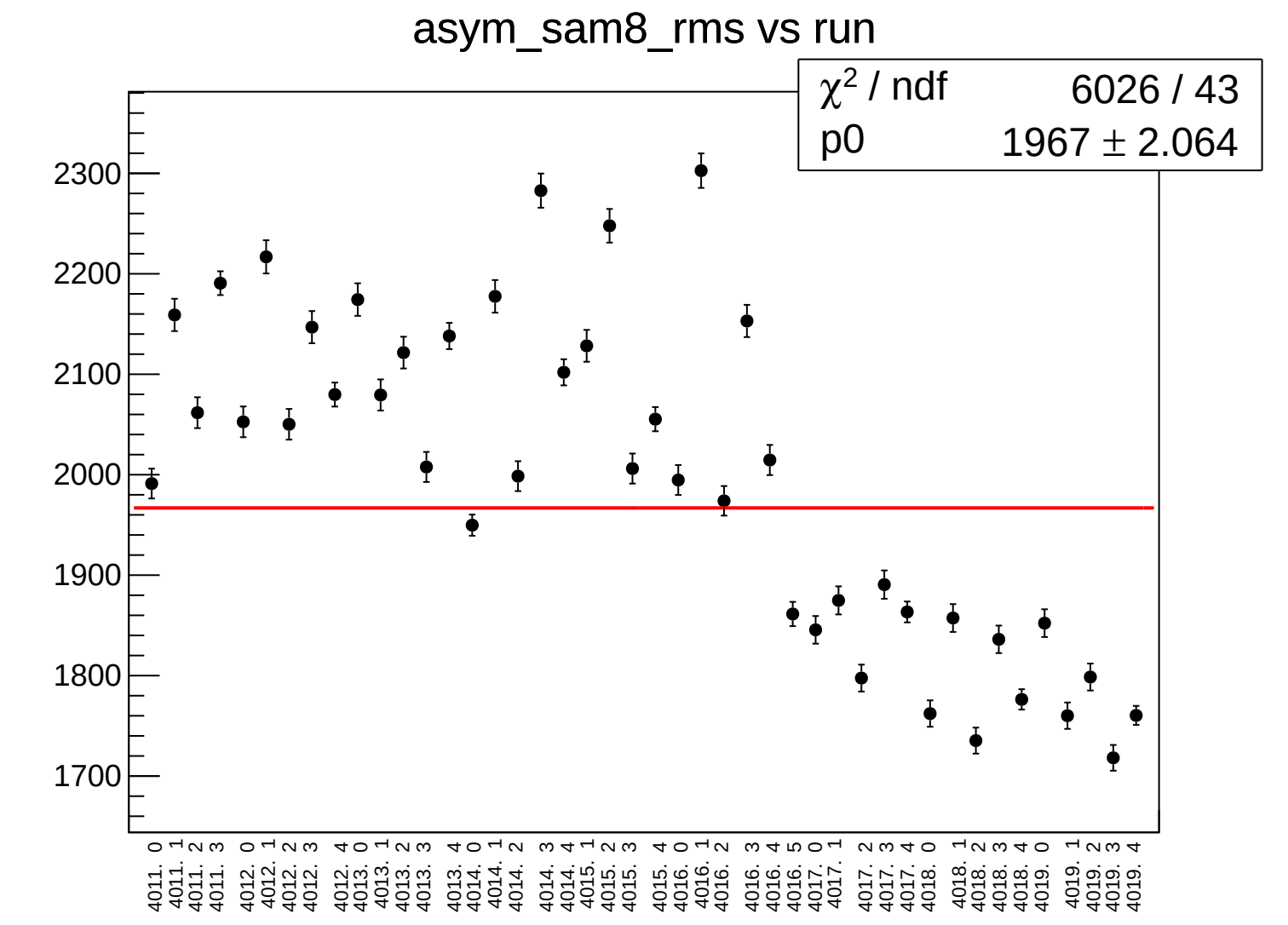

pull1D
Entries 44
Mean 0.005678
Std Dev 0.8642

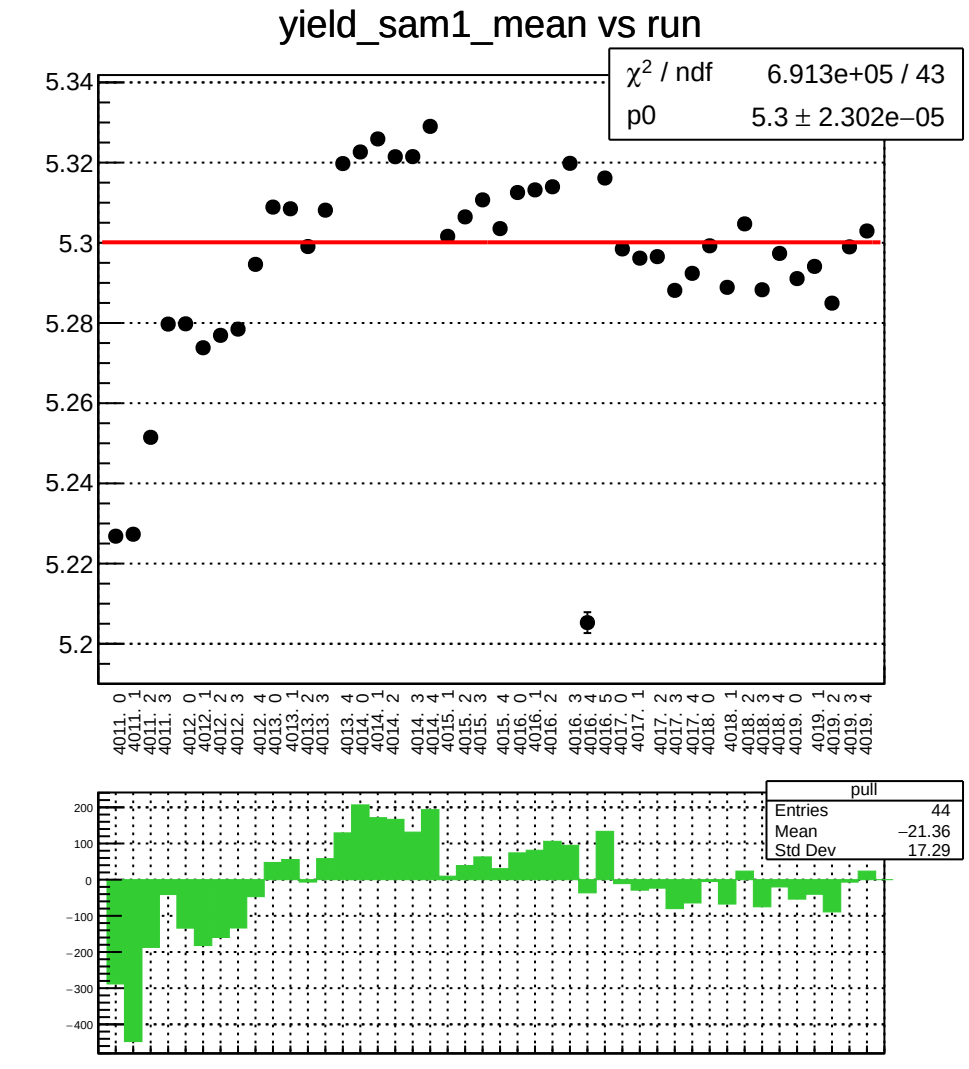

asym_sam6_rms vs run
χ² / ndf 5616 / 43
p0 2722 ± 2.856
3200
3000
2800
2600
2400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

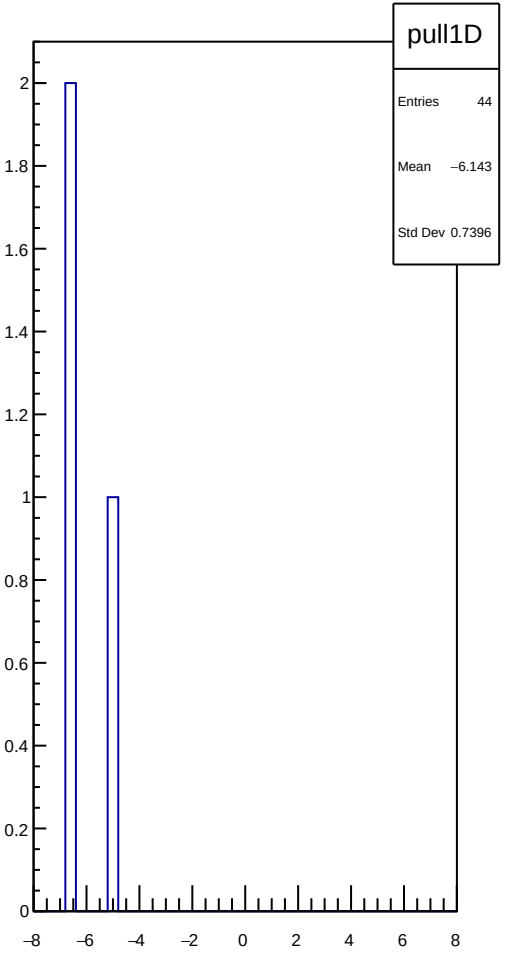

asym_sam7_mean vs run
χ² / ndf 37.78 / 43
p0 −1078 ± 2668
60000
40000
20000
0
−20000
−40000
−60000
−80000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −38.61
Std Dev 51.04
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 44
Mean 0.01373
Std Dev 0.9266
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

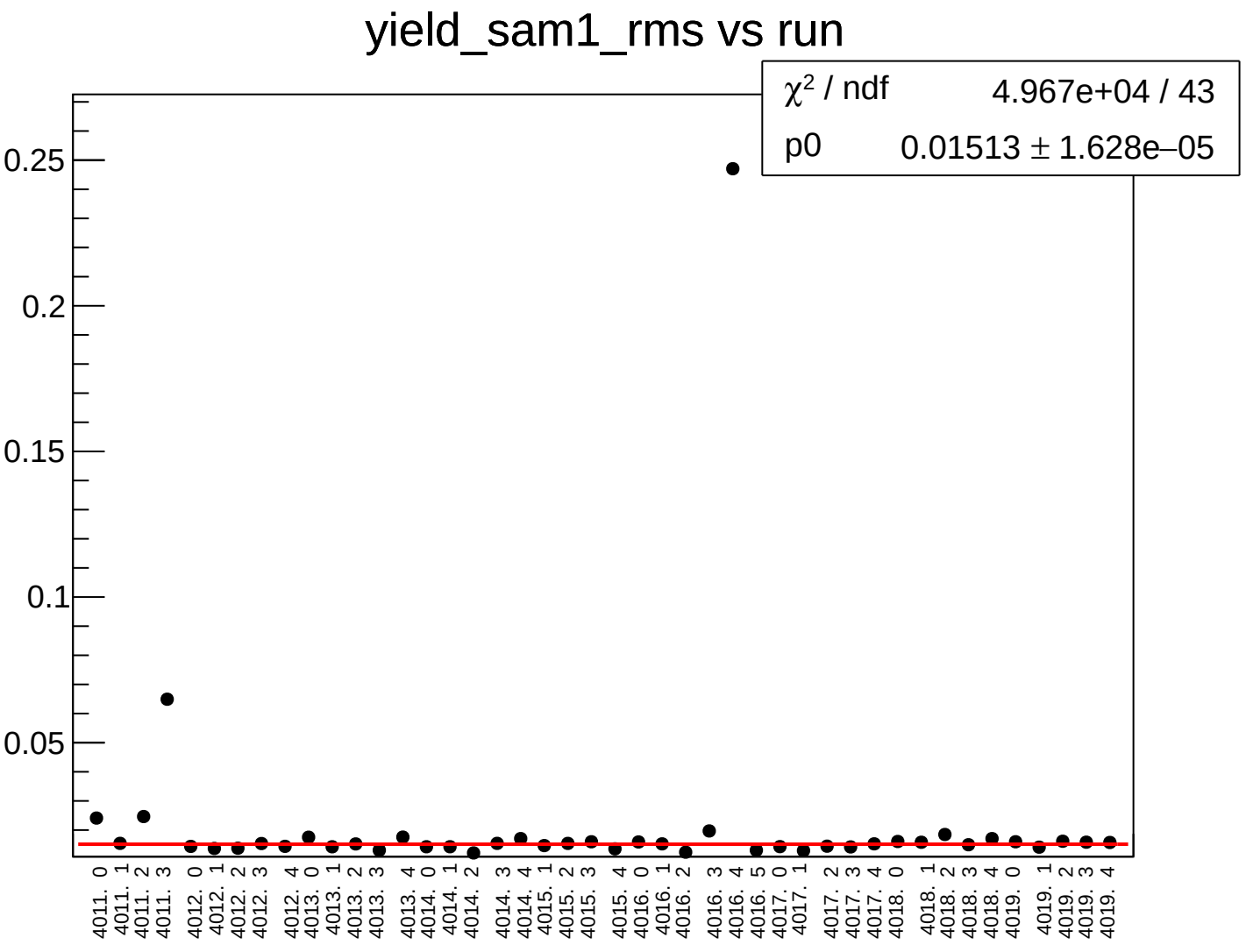

asym_sam7_rms vs run
χ² / ndf 5172 / 43
p0 1798 ± 1.886
2000
1900
1800
1700
1600
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

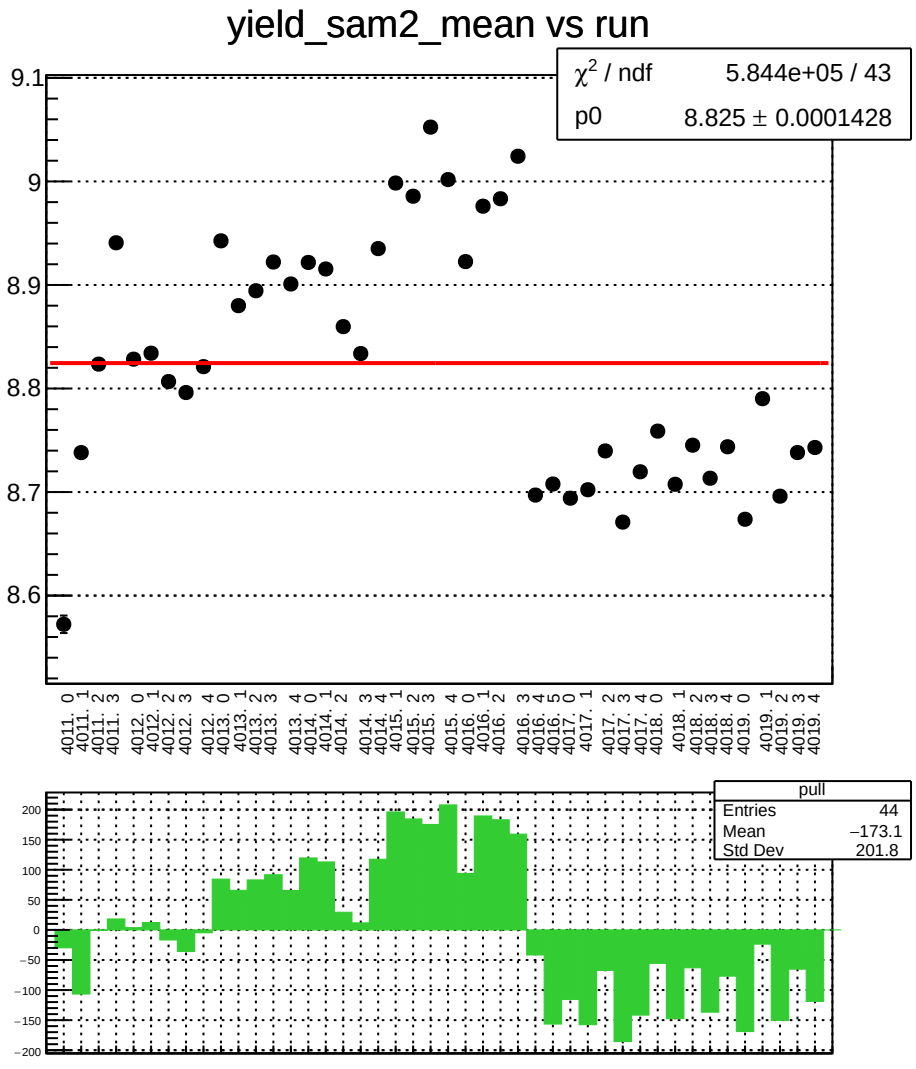

asym_sam8_mean vs run
×10^3
χ^2 / ndf 50.98 / 43
p0 −1381 ± 2919
80
60
40
20
0
−20
−40
−60
−80
−100
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 97.25
Std Dev 69.28
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.01266
Std Dev 1.076
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

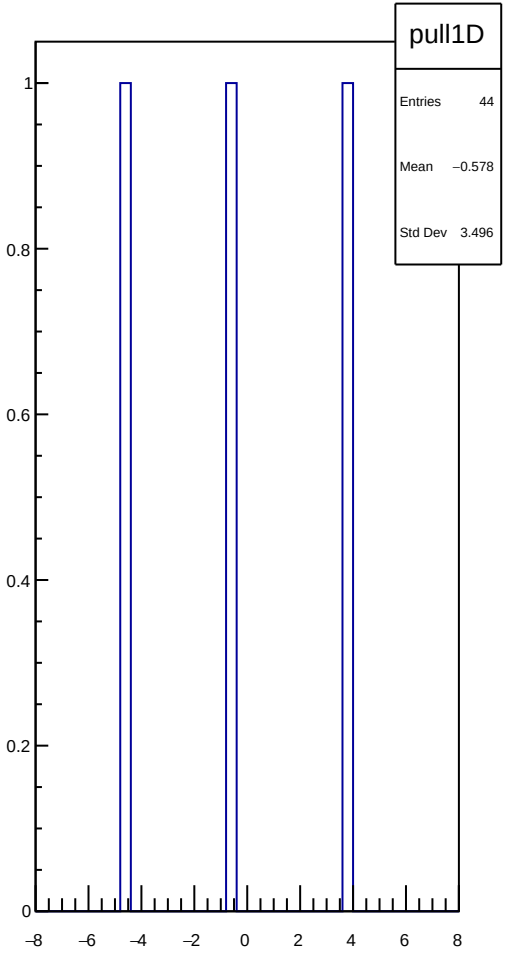

asym_sam8_rms vs run
χ² / ndf 6026 / 43
p0 1967 ± 2.064
2300
2200
2100
2000
1900
1800
1700
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

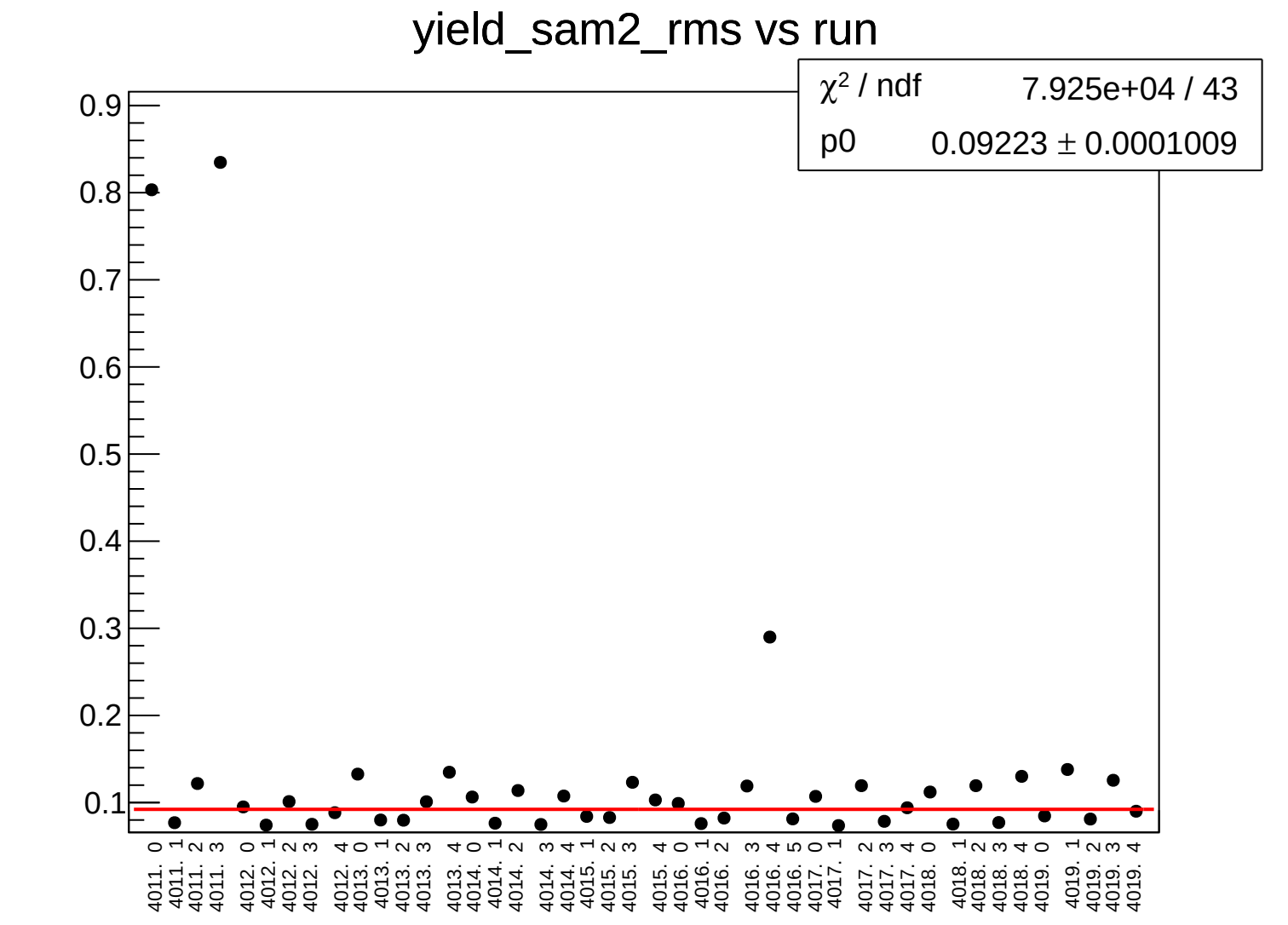

yield_sam1_mean vs run
χ² / ndf 6.913e+05 / 43
p0 5.3 ± 2.302e−05
5.34
5.32
5.3
5.28
5.26
5.24
5.22
5.2
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −21.36
Std Dev 17.29
200
100
0
−100
−200
−300
−400

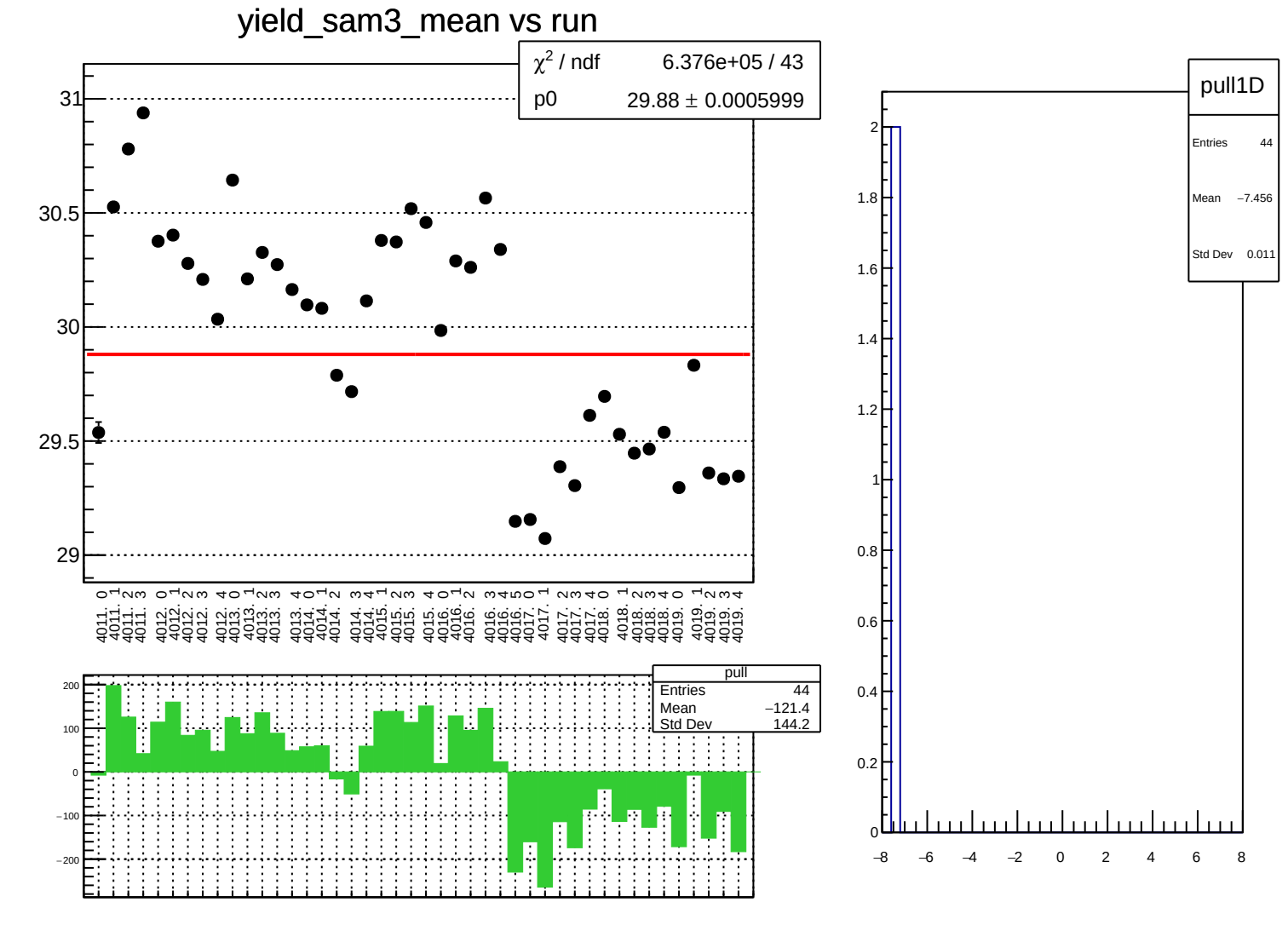

pull1D
Entries 44
Mean −6.143
Std Dev 0.7396
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

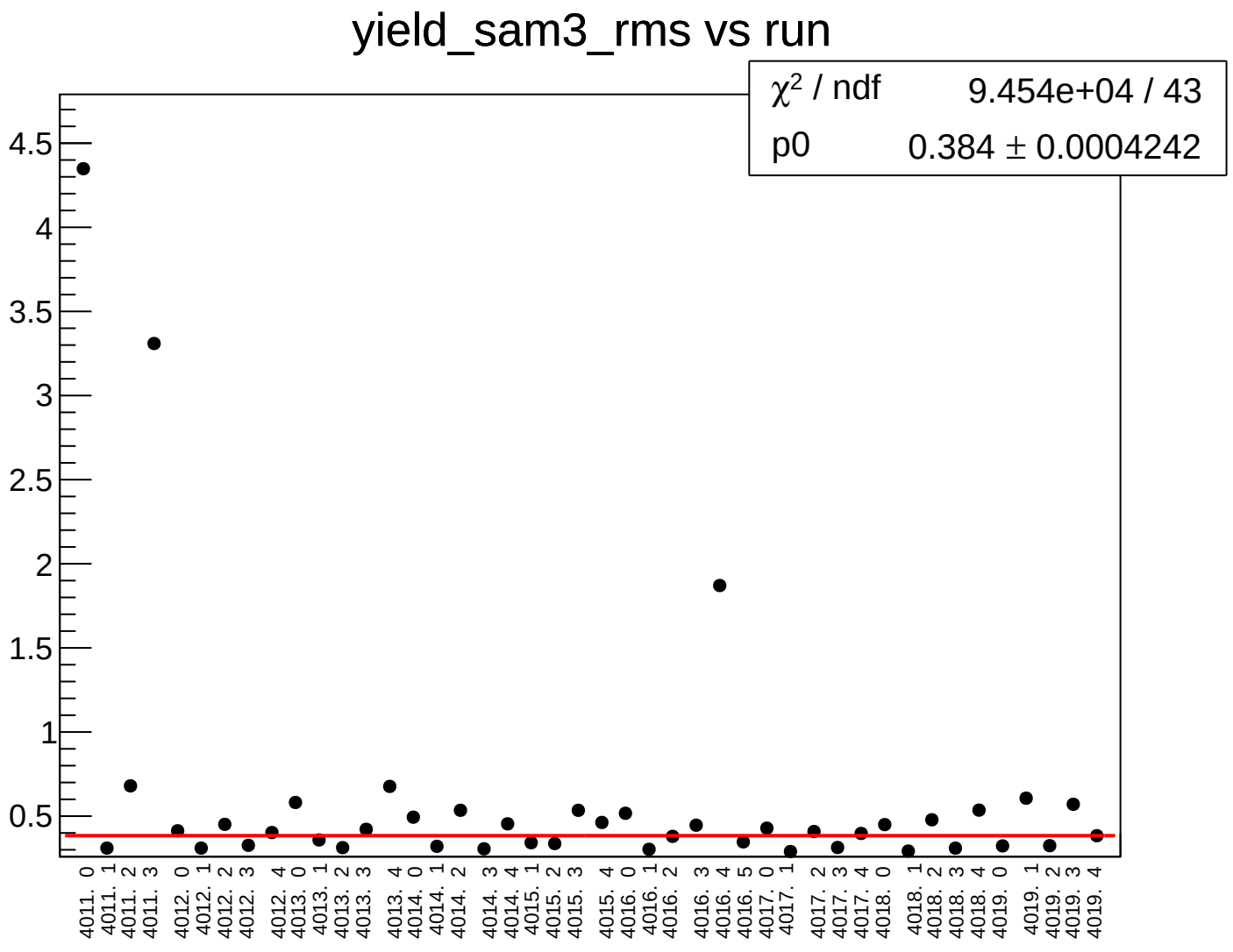

yield_sam1_rms vs run
χ² / ndf 4.967e+04 / 43
p0 0.01513 ± 1.628e–05
0.25
0.2
0.15
0.1
0.05
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

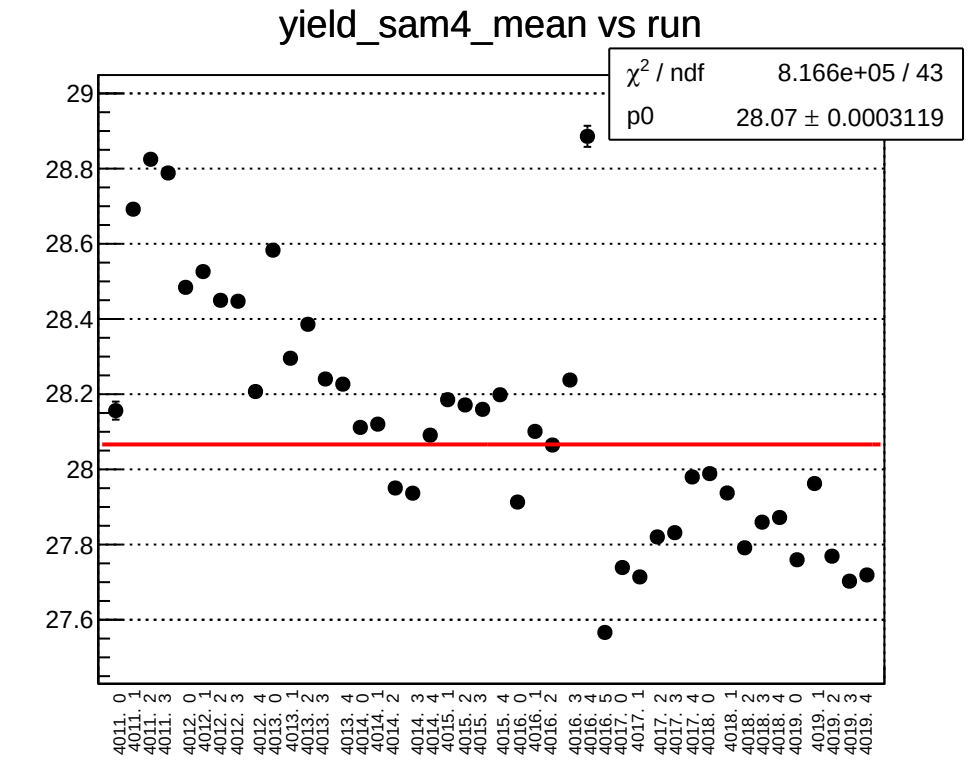

yield_sam2_mean vs run
χ² / ndf 5.844e+05 / 43
p0 8.825 ± 0.0001428
9.1
9
8.9
8.8
8.7
8.6
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −173.1
Std Dev 201.8
200
150
100
50
0
−50
−100
−150
−200

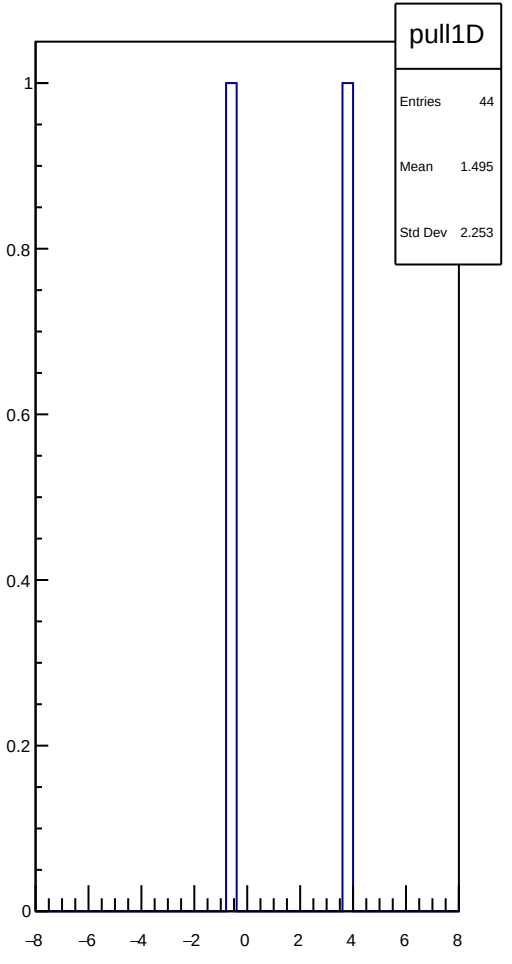

pull1D
Entries 44
Mean −0.578
Std Dev 3.496
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

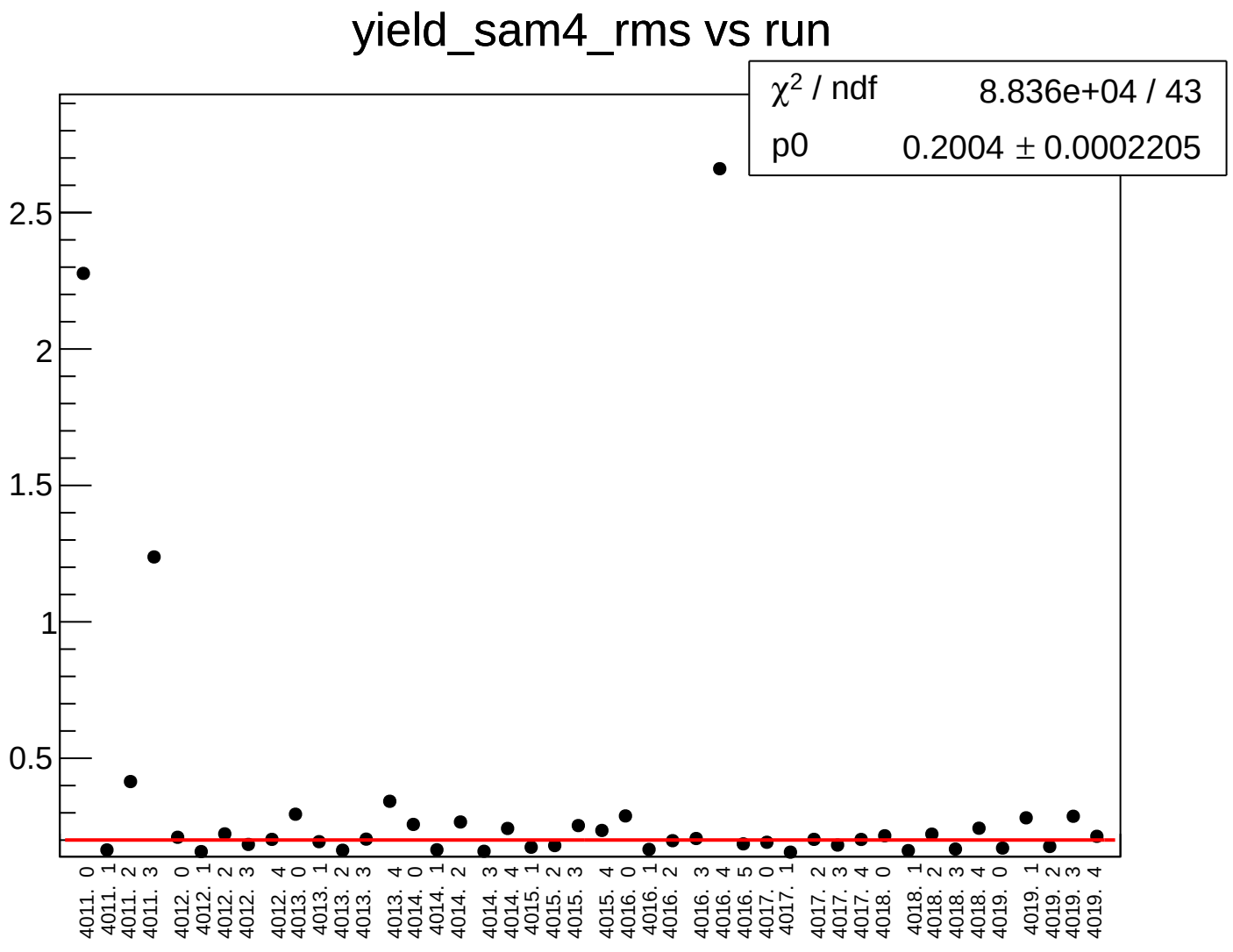

yield_sam2_rms vs run
χ² / ndf 7.925e+04 / 43
p0 0.09223 ± 0.0001009
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

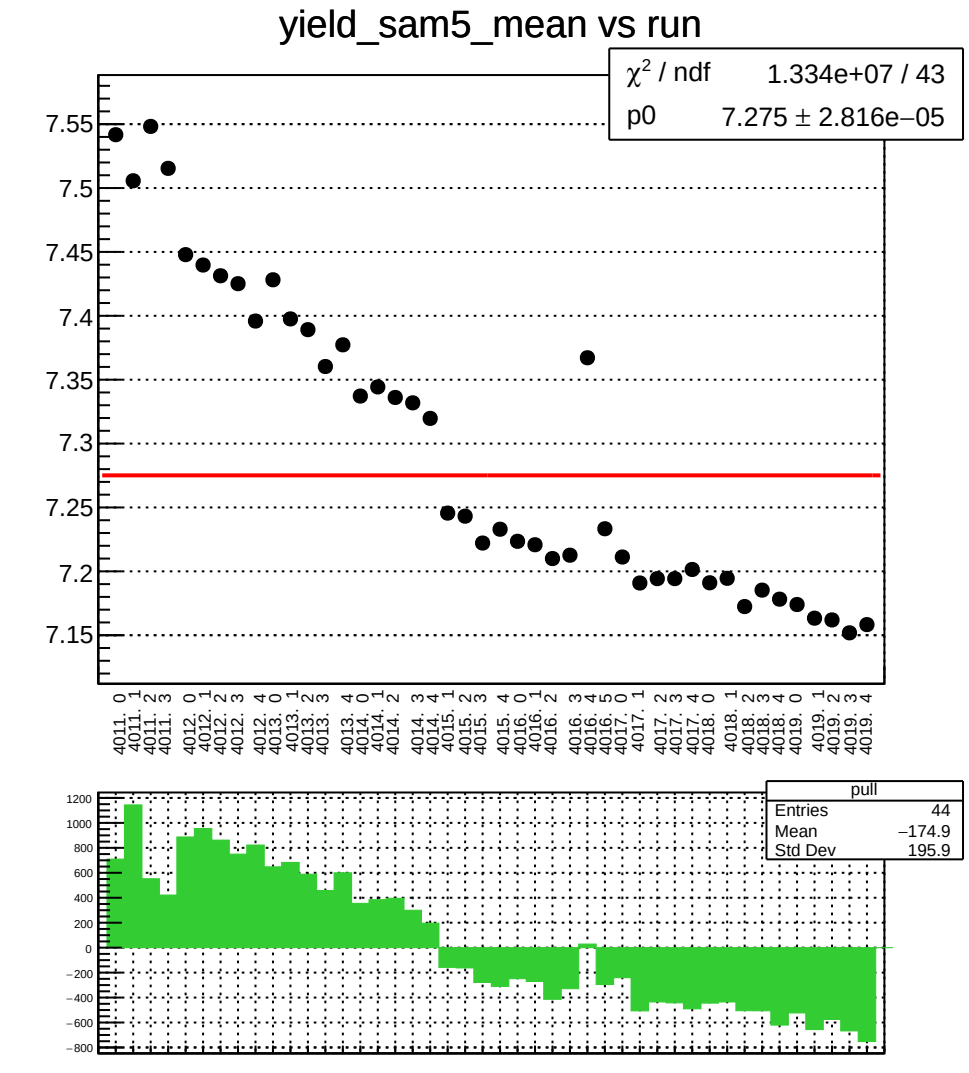

yield_sam3_mean vs run
χ² / ndf 6.376e+05 / 43
p0 29.88 ± 0.0005999
31
30.5
30
29.5
29
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −121.4
Std Dev 144.2
200
100
0
−100
−200
pull1D
Entries 44
Mean −7.456
Std Dev 0.011
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

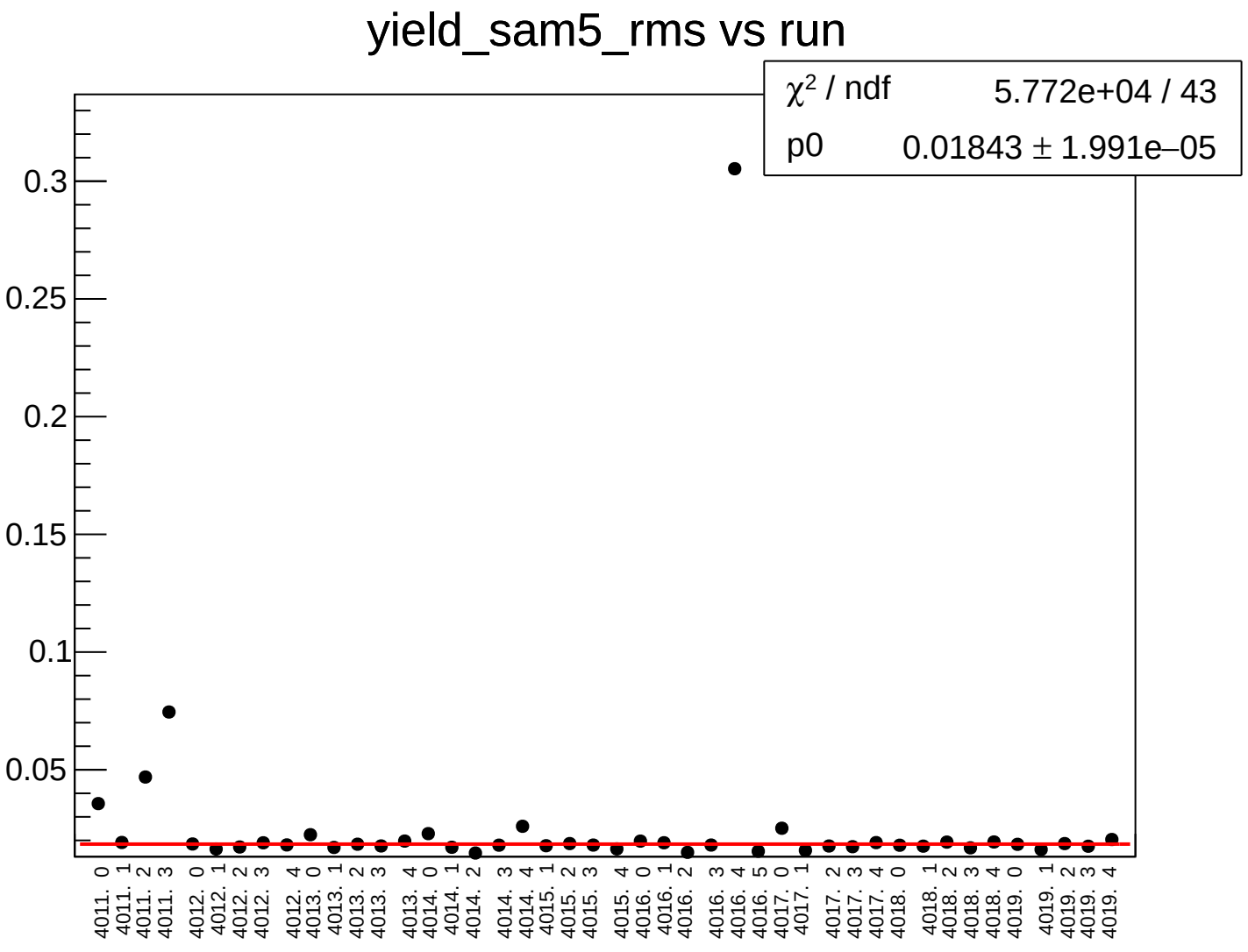

yield_sam3_rms vs run
χ² / ndf 9.454e+04 / 43
p0 0.384 ± 0.0004242
4.5
4
3.5
3
2.5
2
1.5
1
0.5
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

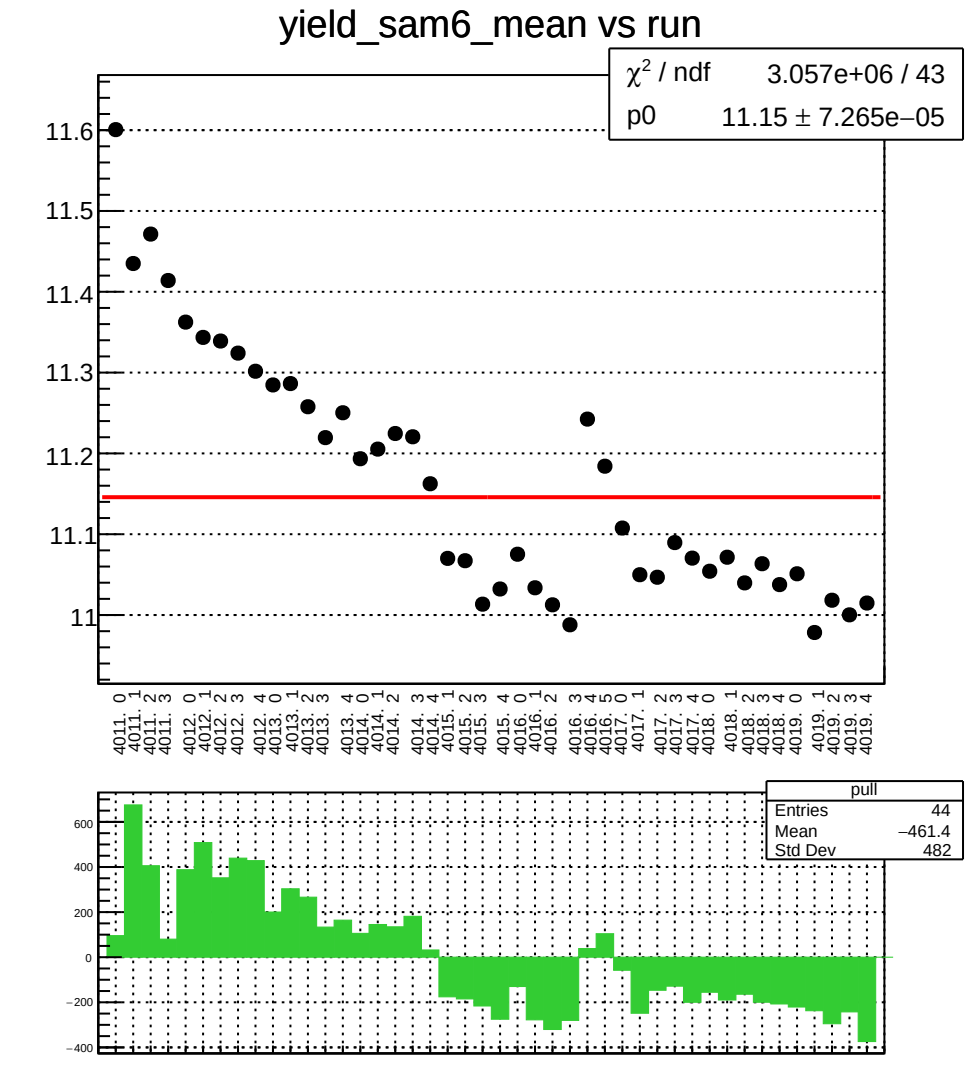

yield_sam4_mean vs run
χ² / ndf 8.166e+05 / 43
p0 28.07 ± 0.0003119
29
28.8
28.6
28.4
28.2
28
27.8
27.6
pull
Entries 44
Mean −204
Std Dev 225.1
300
200
100
0
−100
−200
−300

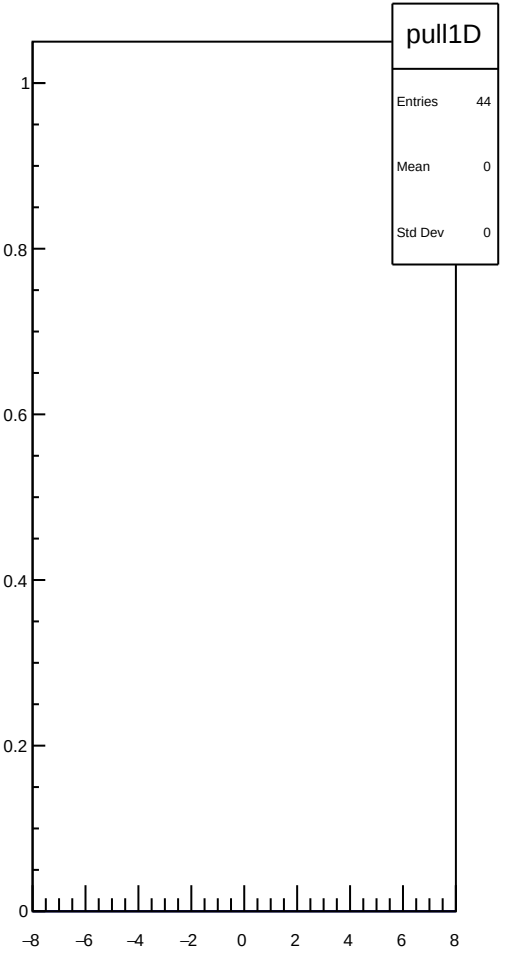

pull1D
Entries 44
Mean 1.495
Std Dev 2.253
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

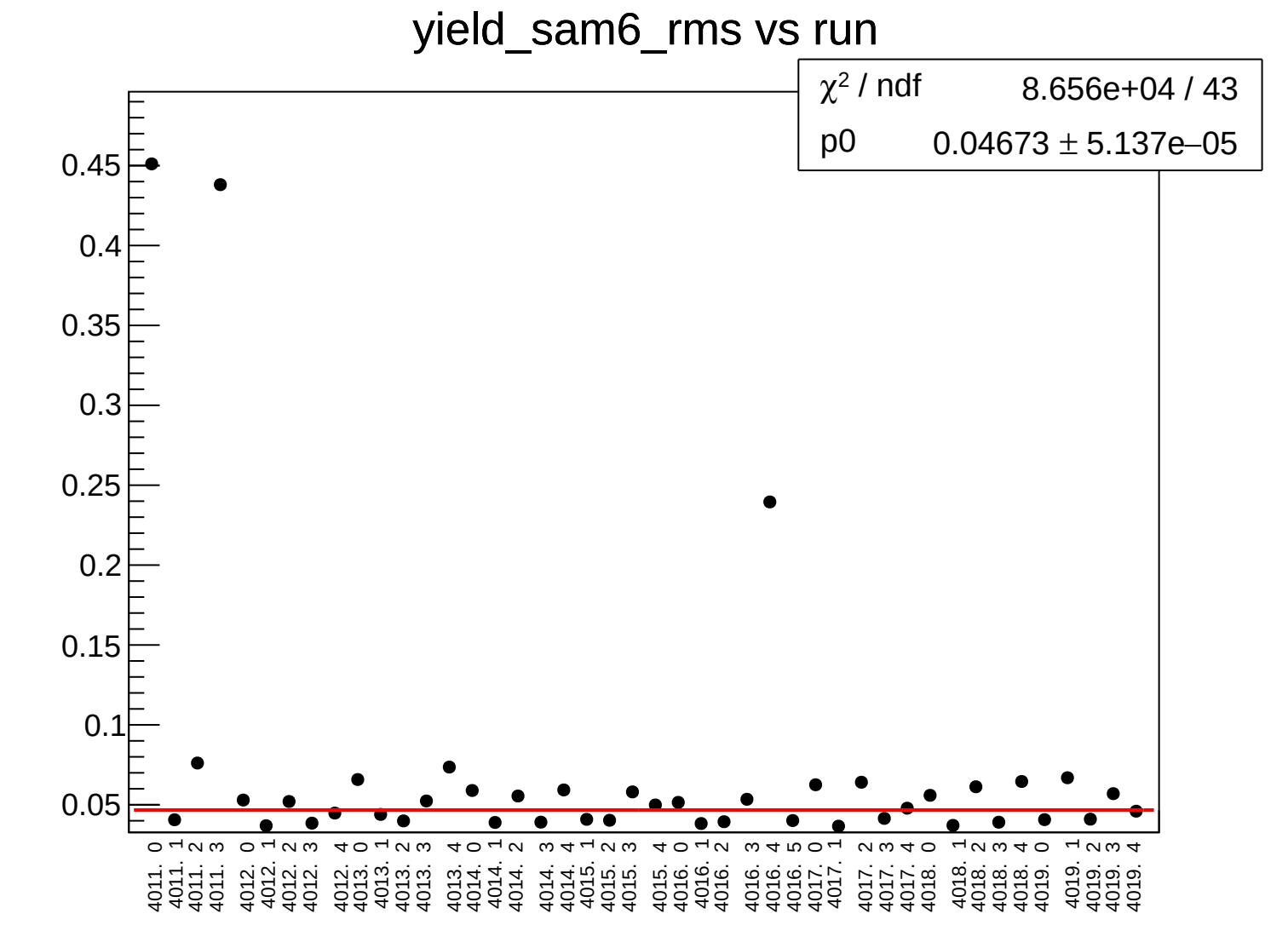

yield_sam4_rms vs run
χ² / ndf 8.836e+04 / 43
p0 0.2004 ± 0.0002205
2.5
2
1.5
1
0.5
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

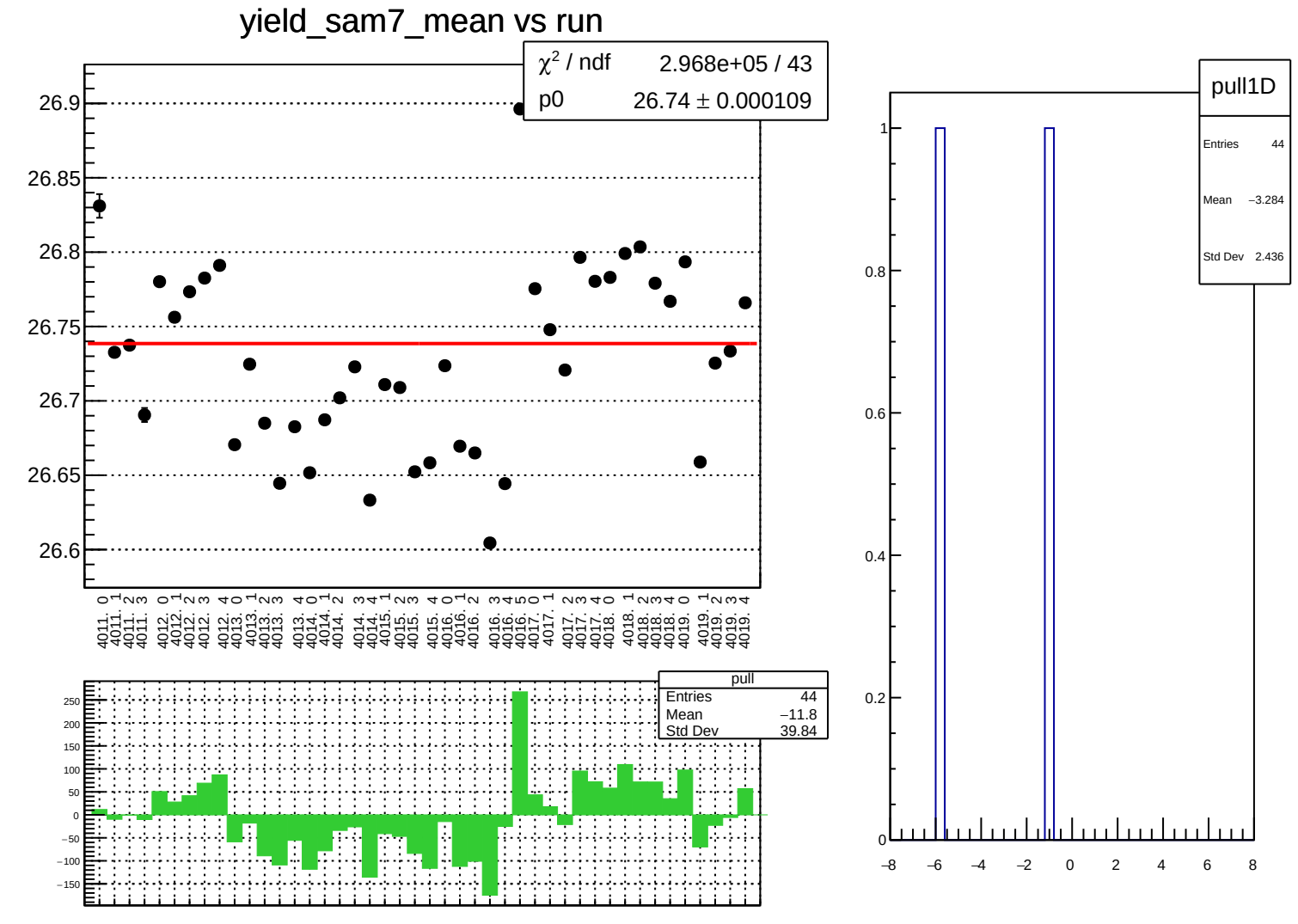

yield_sam5_mean vs run
χ² / ndf 1.334e+07 / 43
p0 7.275 ± 2.816e−05
7.55
7.5
7.45
7.4
7.35
7.3
7.25
7.2
7.15
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −174.9
Std Dev 195.9
1200
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

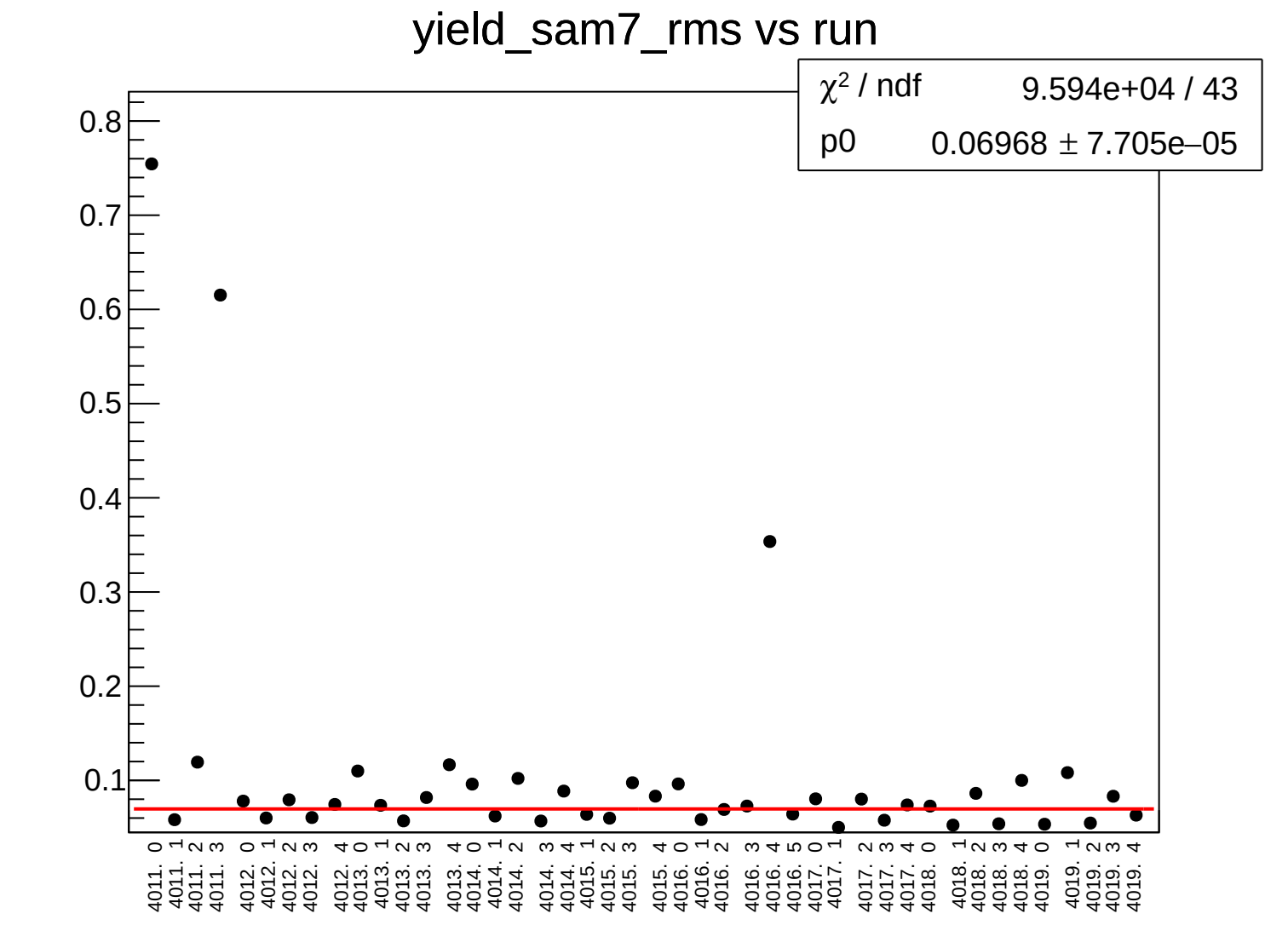

yield_sam5_rms vs run
χ² / ndf 5.772e+04 / 43
p0 0.01843 ± 1.991e–05
0.3
0.25
0.2
0.15
0.1
0.05
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

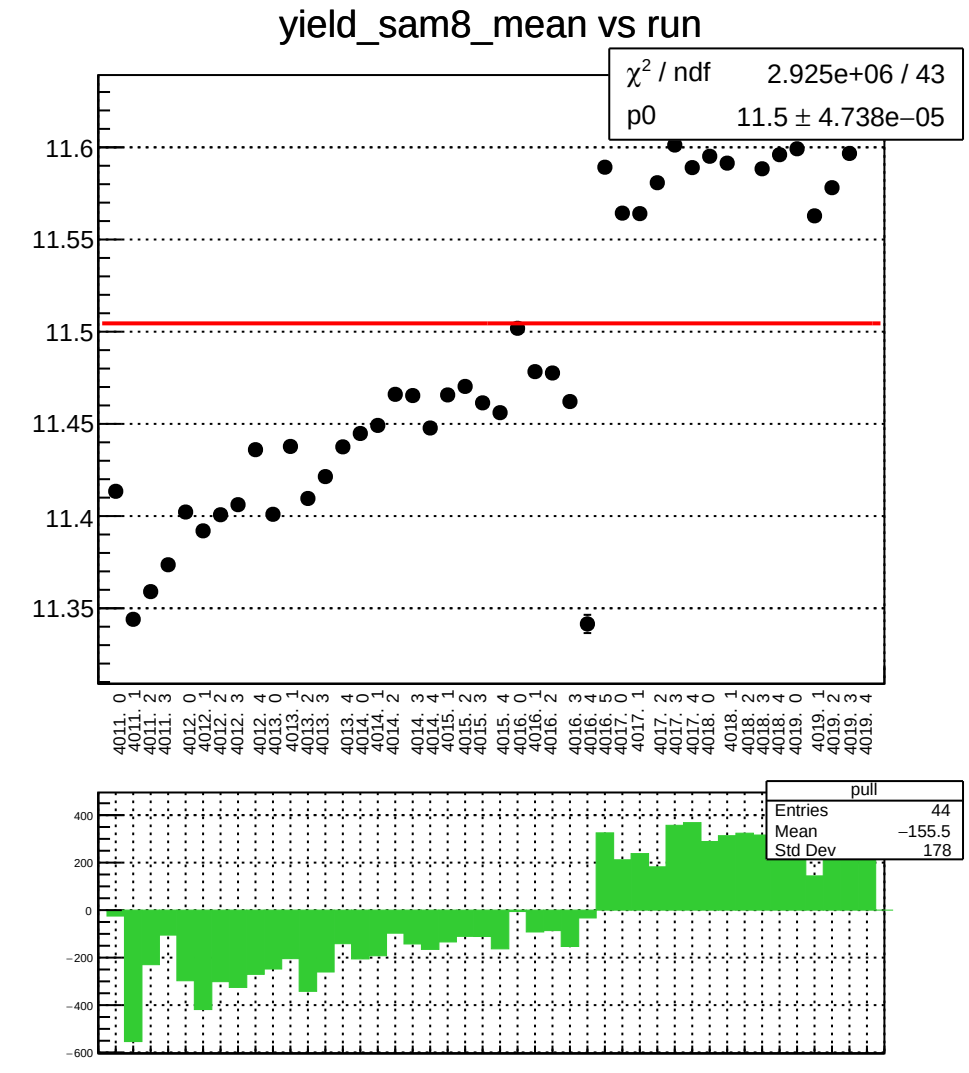

yield_sam6_mean vs run
χ² / ndf 3.057e+06 / 43
p0 11.15 ± 7.265e−05
11.6
11.5
11.4
11.3
11.2
11.1
11
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −461.4
Std Dev 482
600
400
200
0
−200
−400

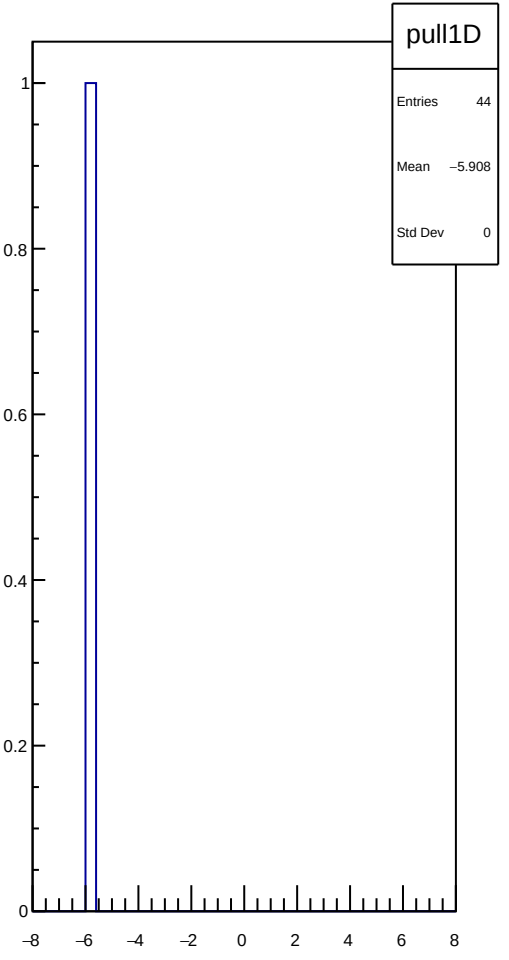

pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

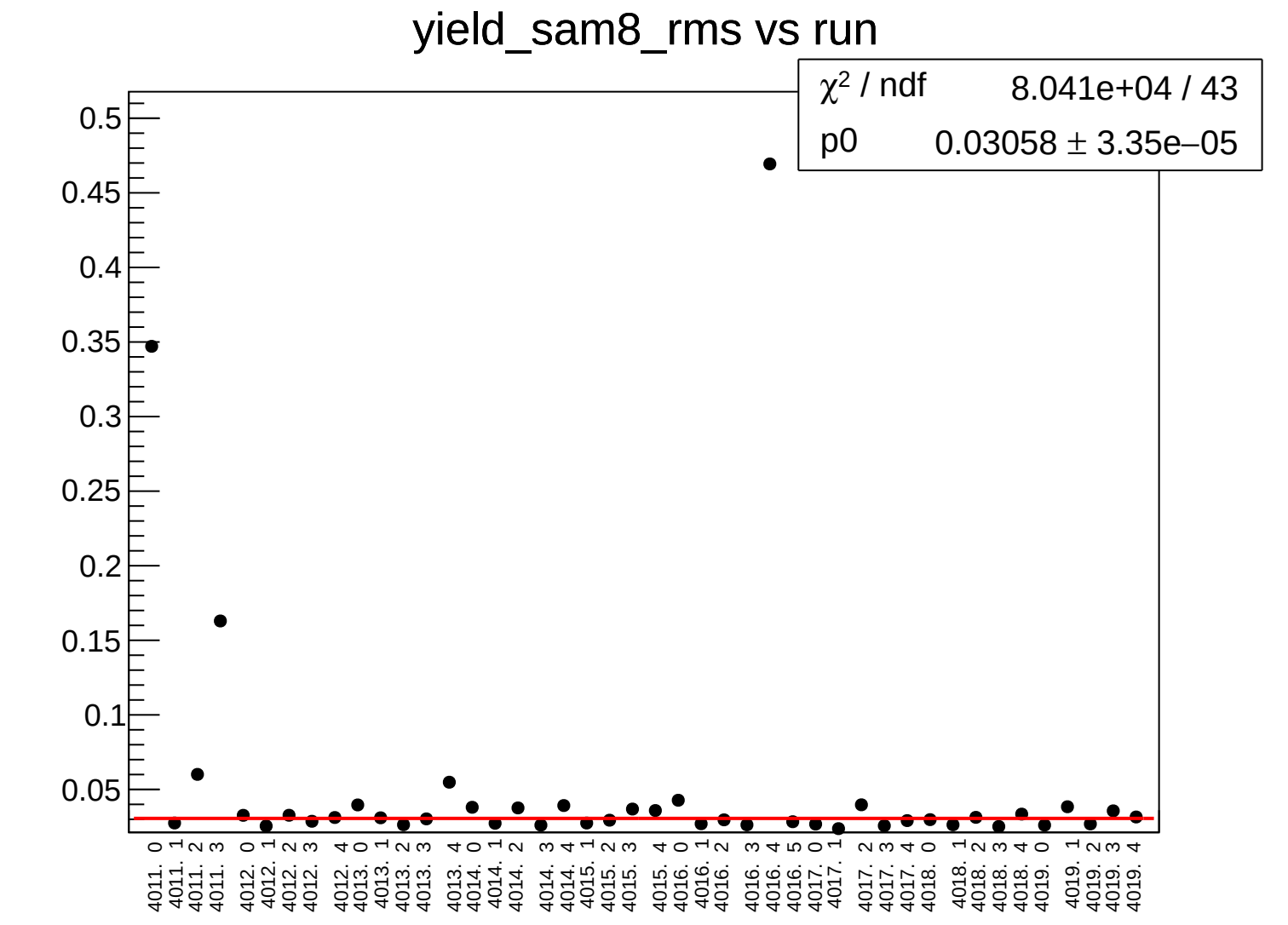

yield_sam6_rms vs run
χ² / ndf 8.656e+04 / 43
p0 0.04673 ± 5.137e–05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

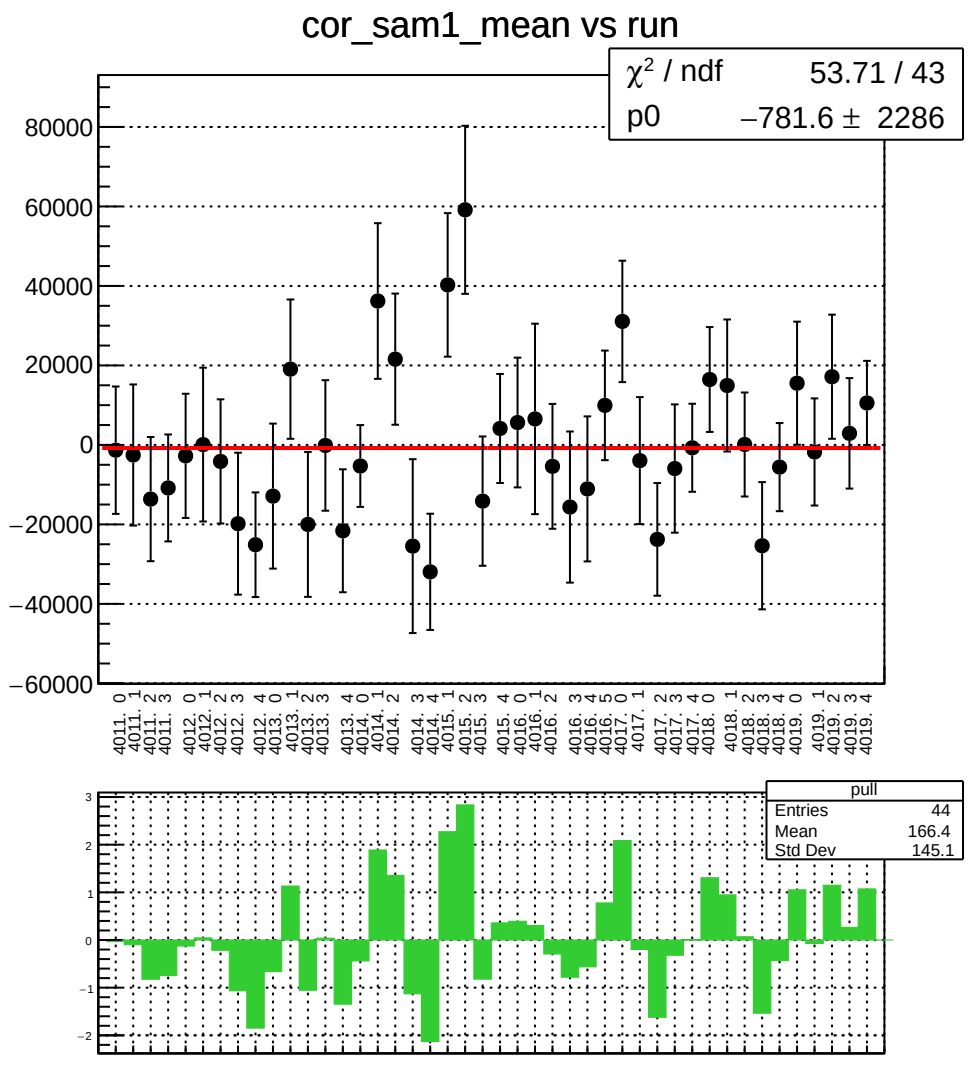

yield_sam7_mean vs run
χ² / ndf 2.968e+05 / 43
p0 26.74 ± 0.000109
26.9
26.85
26.8
26.75
26.7
26.65
26.6
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −11.8
Std Dev 39.84
250
200
150
100
50
0
−50
−100
−150
pull1D
Entries 44
Mean −3.284
Std Dev 2.436
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

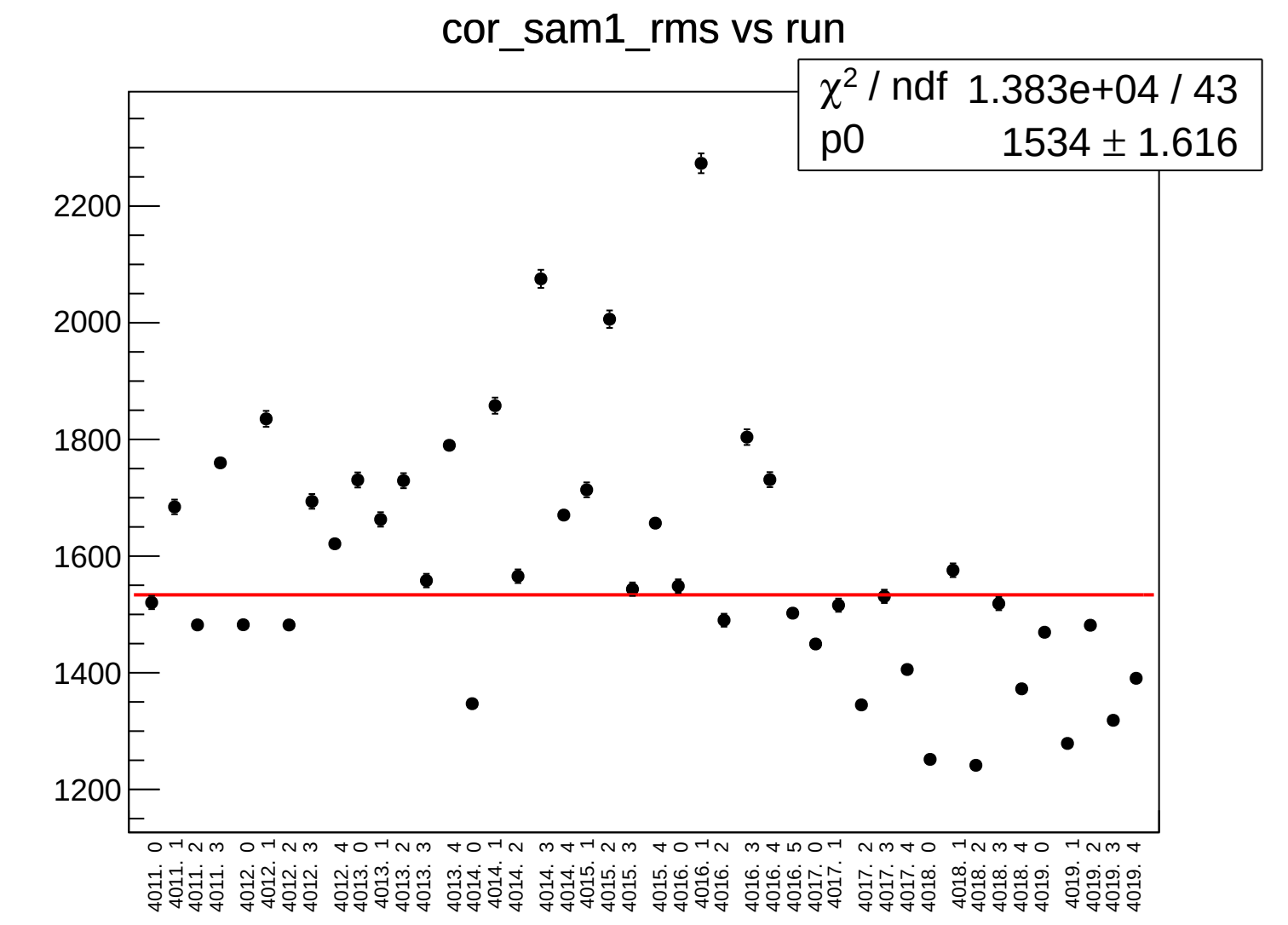

yield_sam7_rms vs run
χ² / ndf 9.594e+04 / 43
p0 0.06968 ± 7.705e–05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

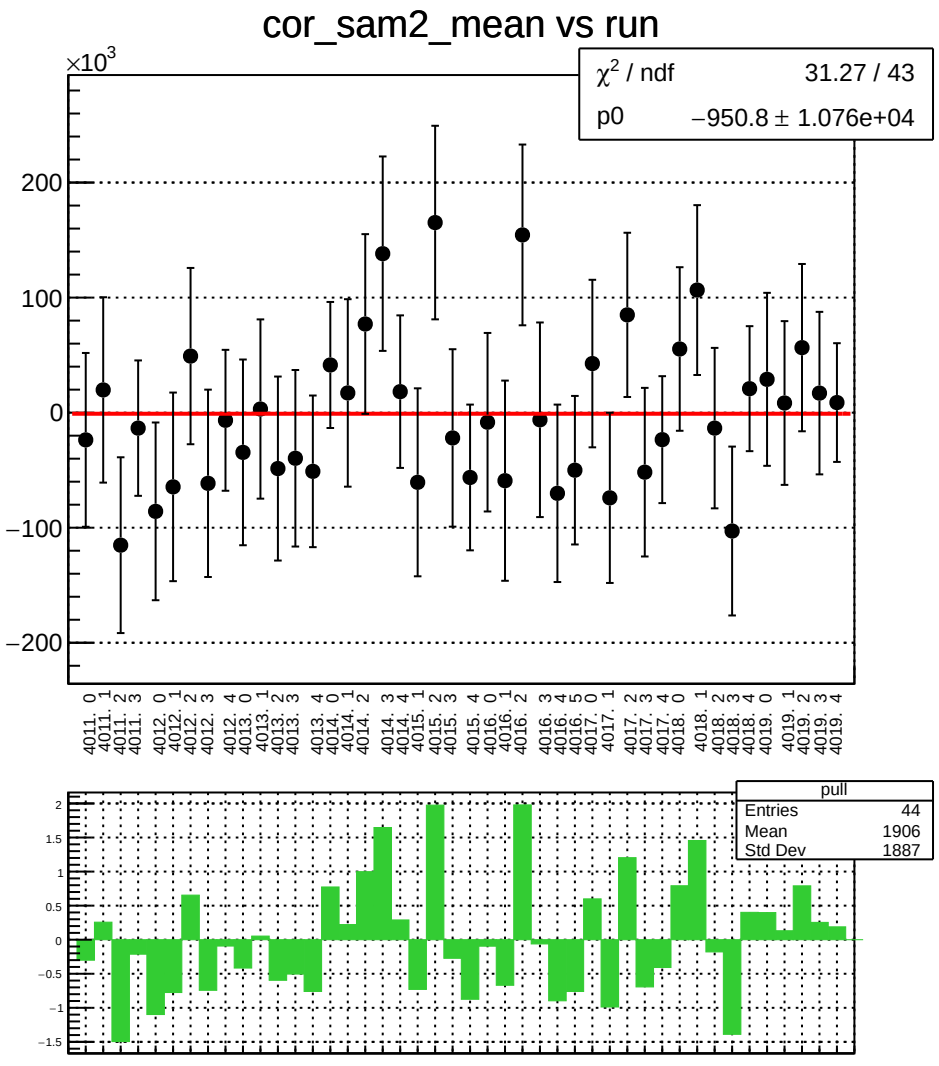

yield_sam8_mean vs run
χ² / ndf 2.925e+06 / 43
p0 11.5 ± 4.738e−05
11.6
11.55
11.5
11.45
11.4
11.35
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −155.5
Std Dev 178
400
200
0
−200
−400
−600

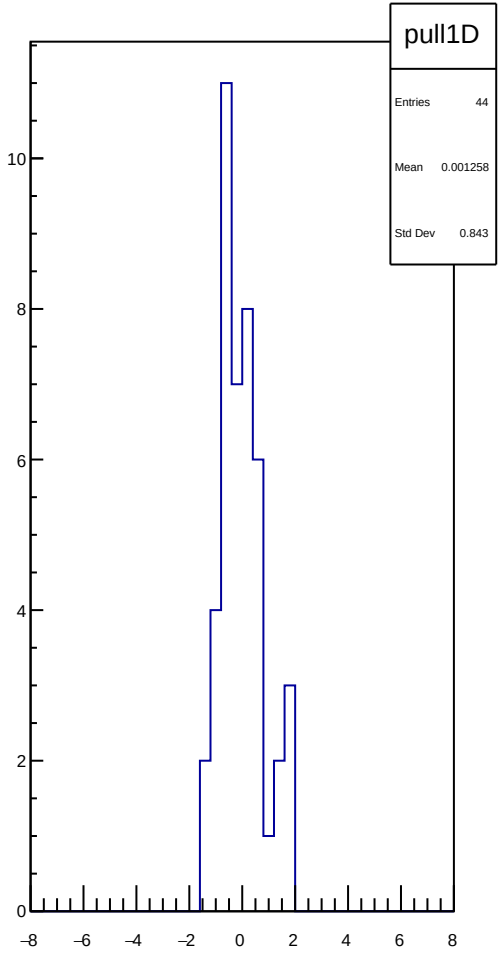

pull1D
Entries 44
Mean −5.908
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

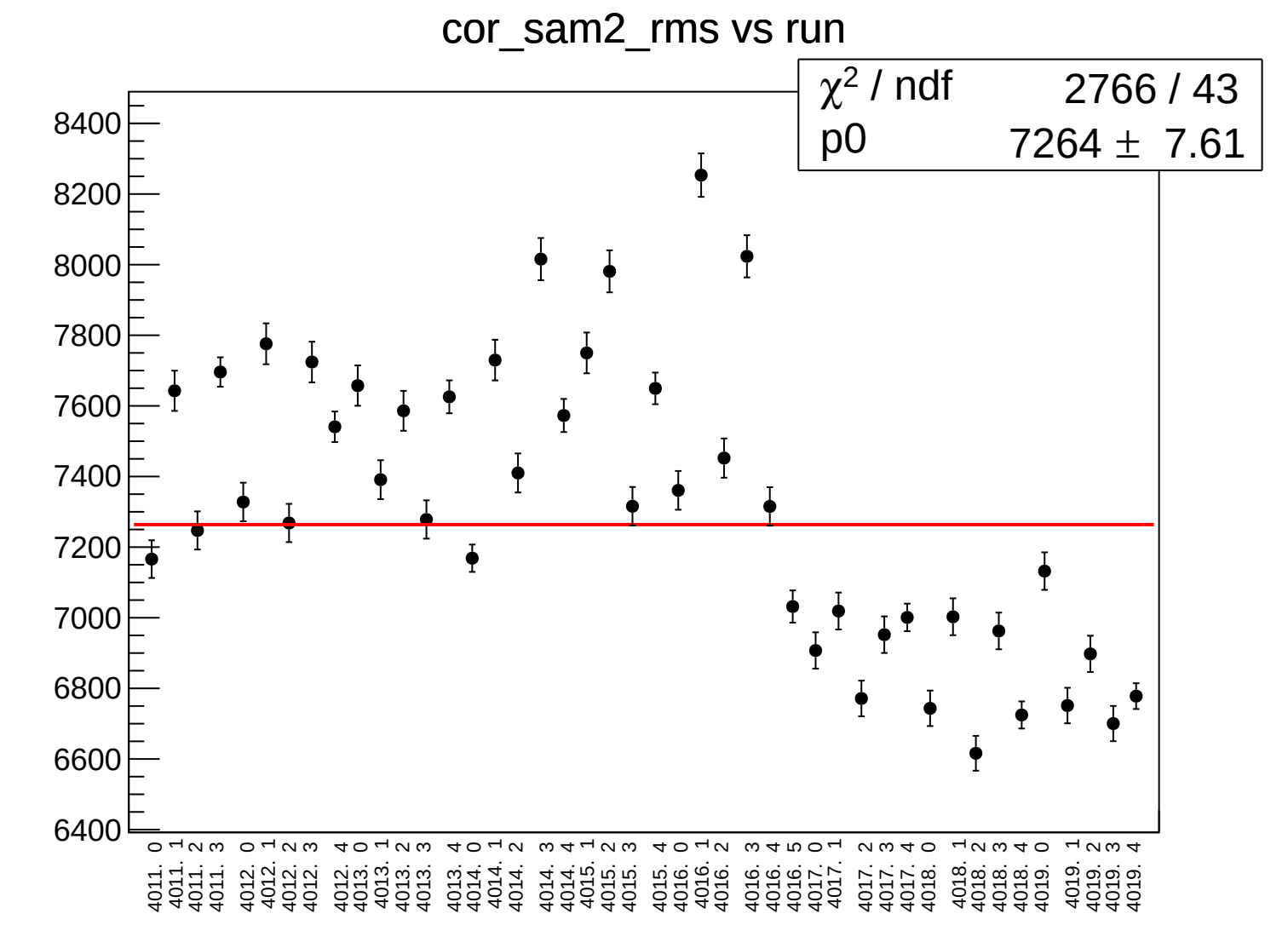

yield_sam8_rms vs run
χ² / ndf 8.041e+04 / 43
p0 0.03058 ± 3.35e−05
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

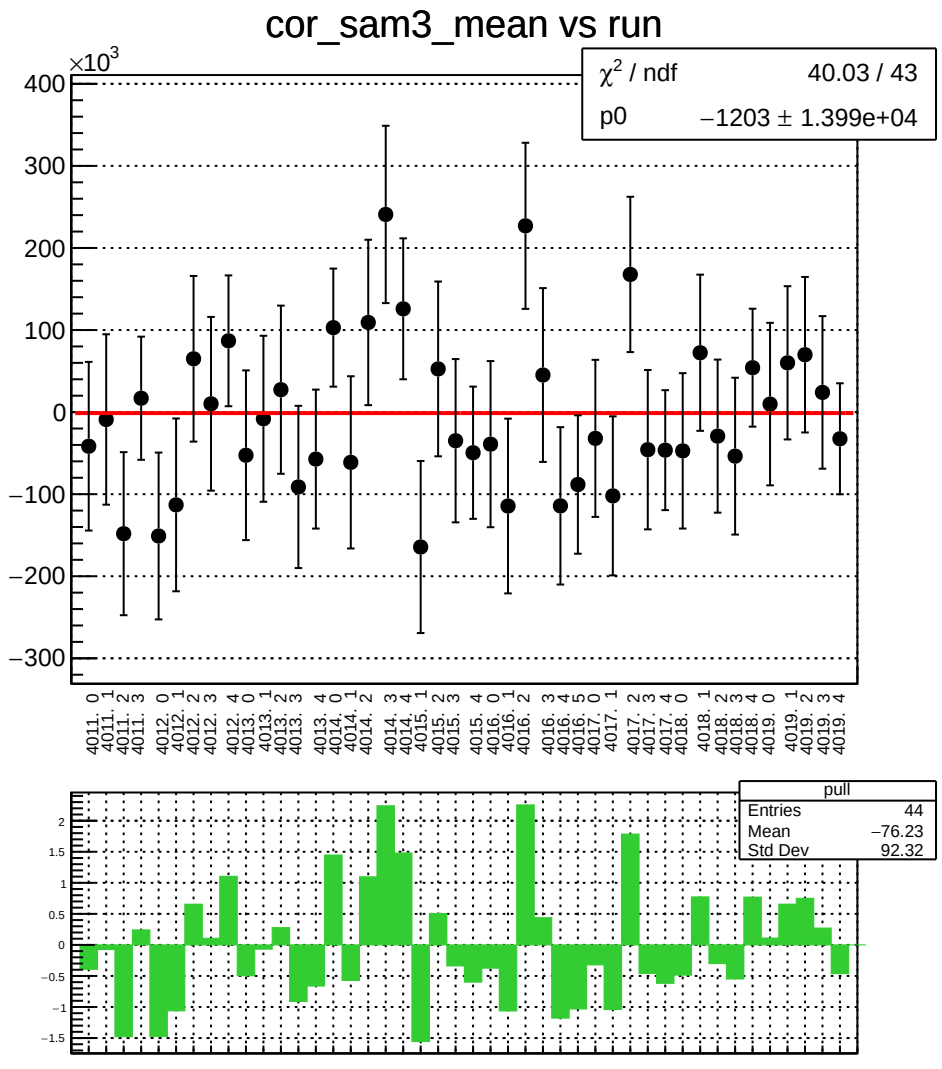

cor_sam1_mean vs run
χ² / ndf 53.71 / 43
p0 −781.6 ± 2286
80000
60000
40000
20000
0
−20000
−40000
−60000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 166.4
Std Dev 145.1
3
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.02252
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

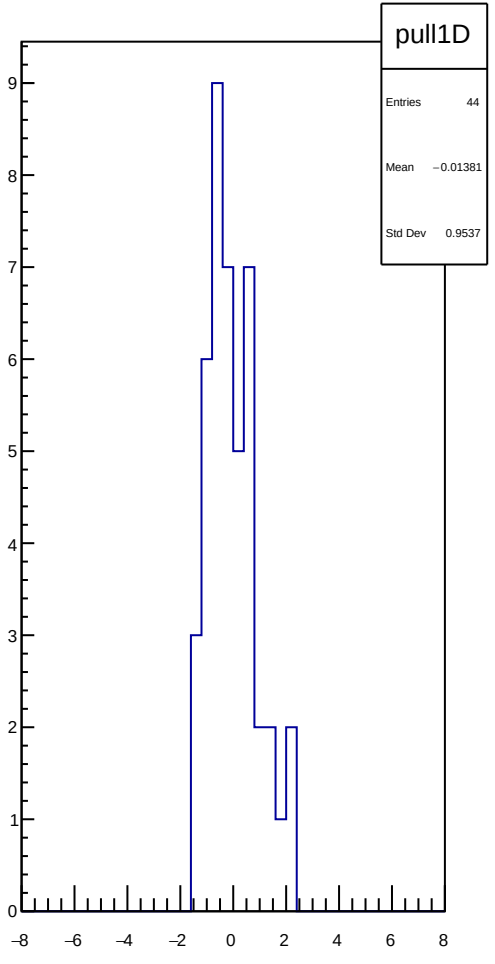

cor_sam1_rms vs run
χ² / ndf 1.383e+04 / 43
p0 1534 ± 1.616
2200
2000
1800
1600
1400
1200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

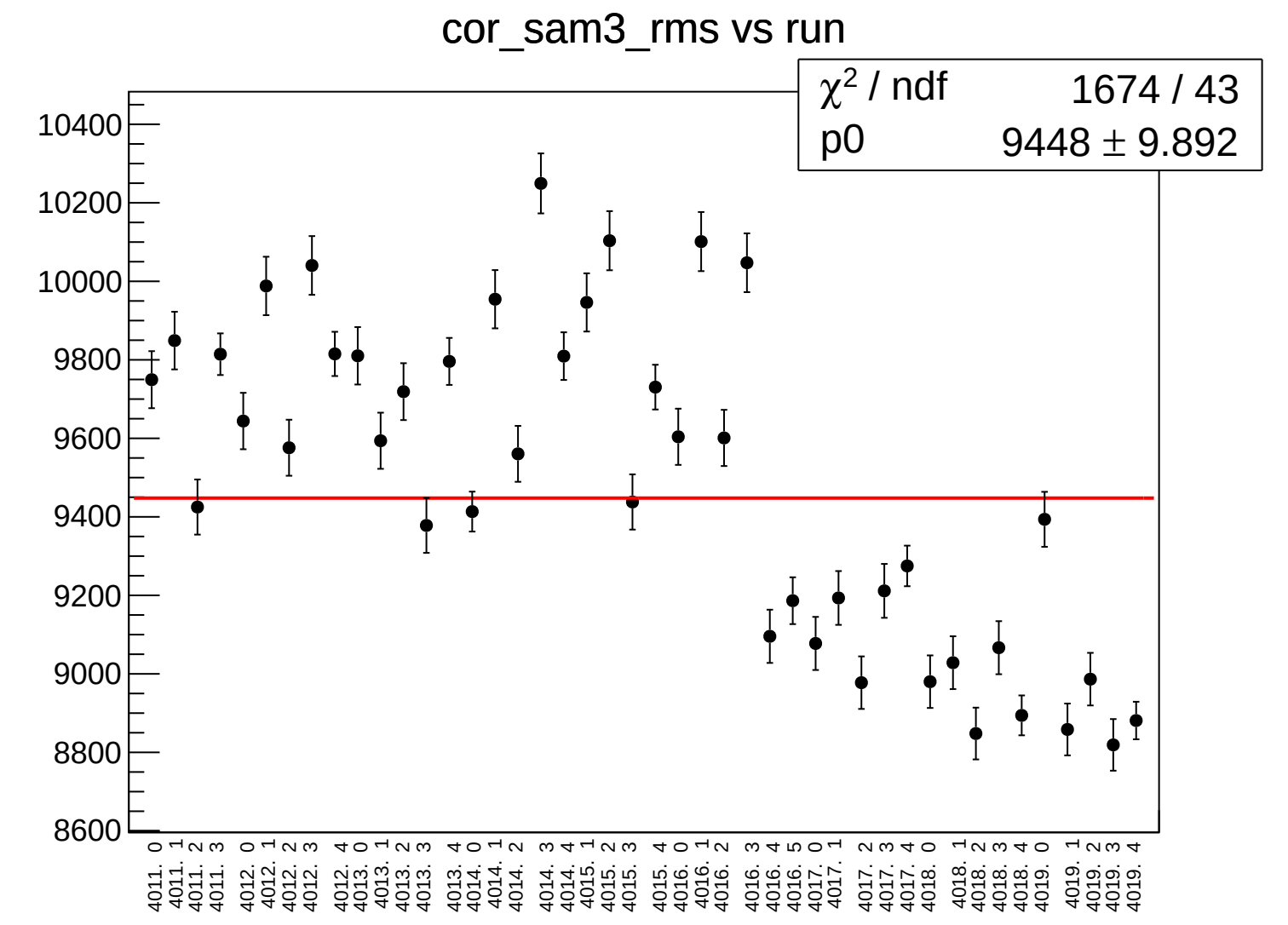

cor_sam2_mean vs run
×10^3
χ² / ndf 31.27 / 43
p0 −950.8 ± 1.076e+04
200
100
0
−100
−200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4016. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 1906
Std Dev 1887
2
1.5
1
0.5
0
−0.5
−1
−1.5

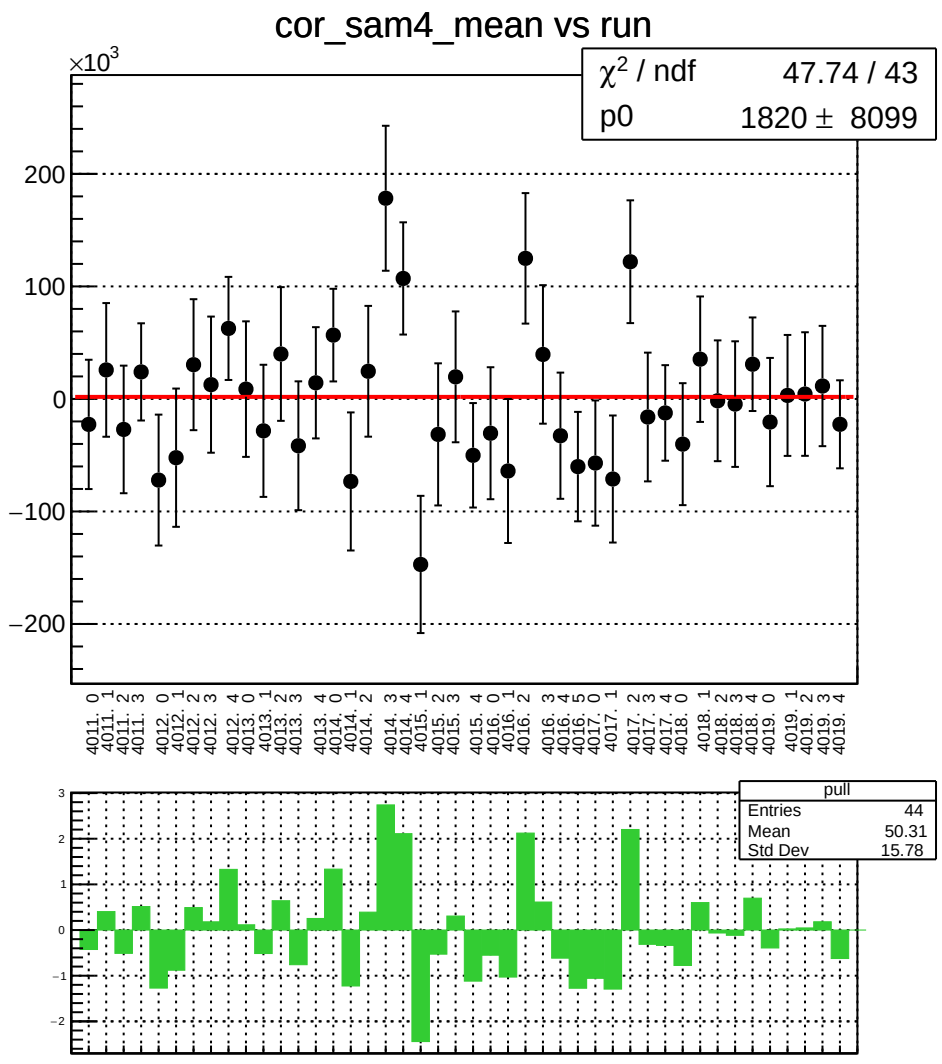

pull1D
Entries 44
Mean 0.001258
Std Dev 0.843
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

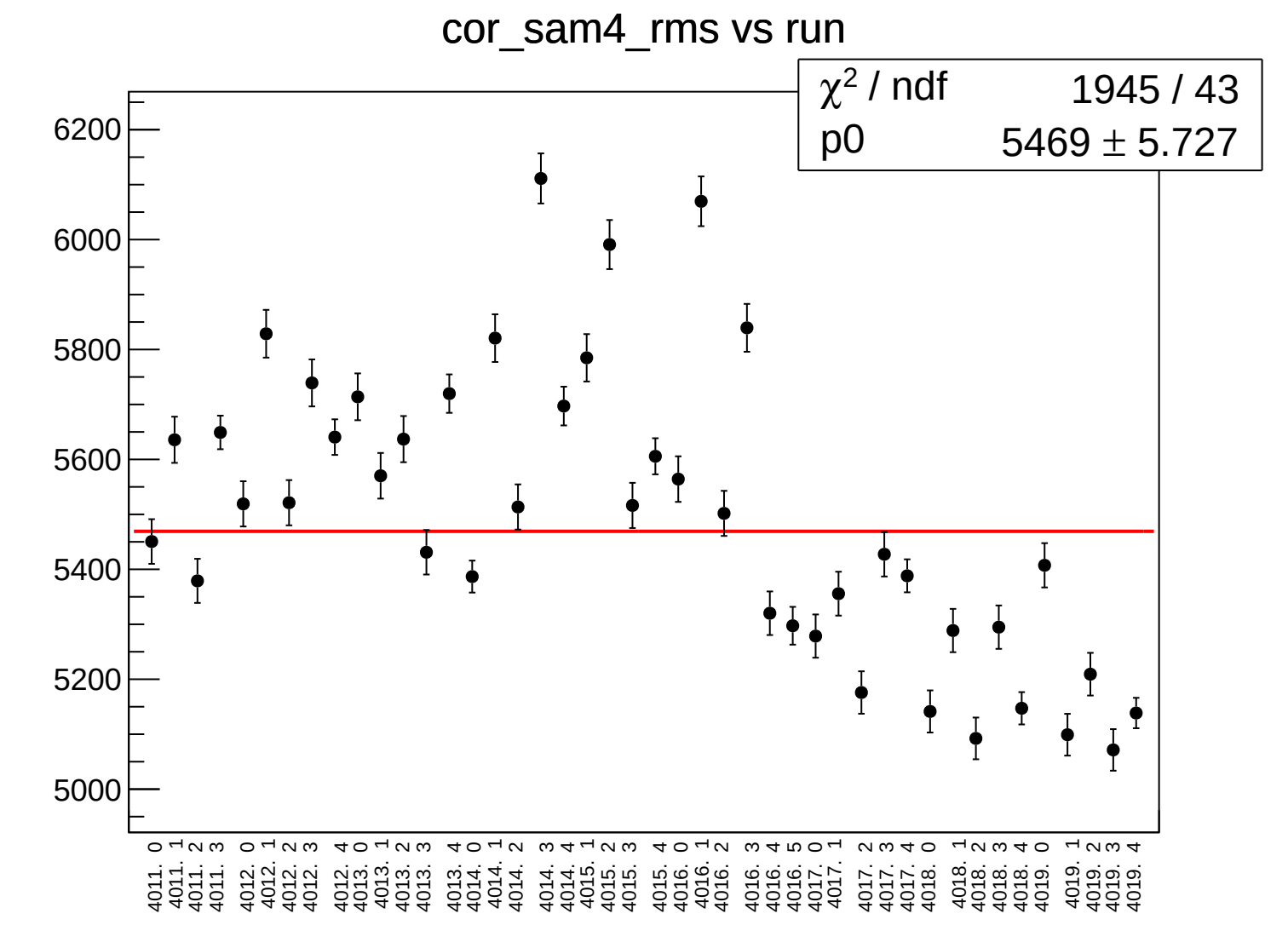

cor_sam2_rms vs run
χ² / ndf 2766 / 43
p0 7264 ± 7.61
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

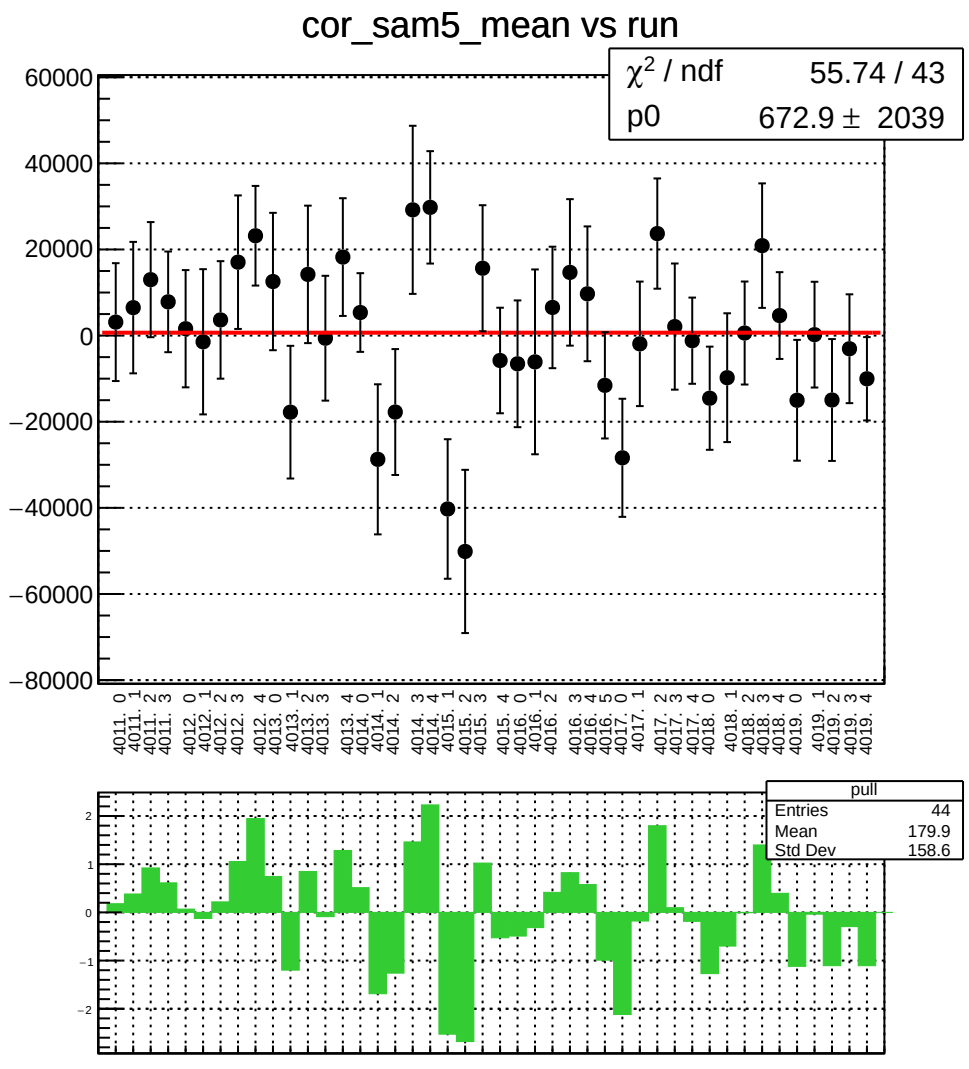

cor_sam3_mean vs run
×10^3
χ² / ndf 40.03 / 43
p0 −1203 ± 1.399e+04
pull
Entries 44
Mean −76.23
Std Dev 92.32

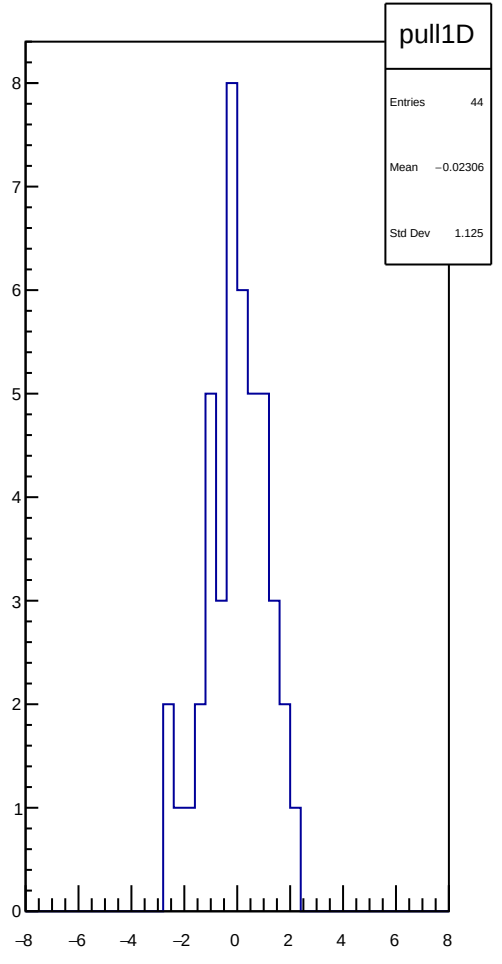

pull1D
Entries 44
Mean −0.01381
Std Dev 0.9537

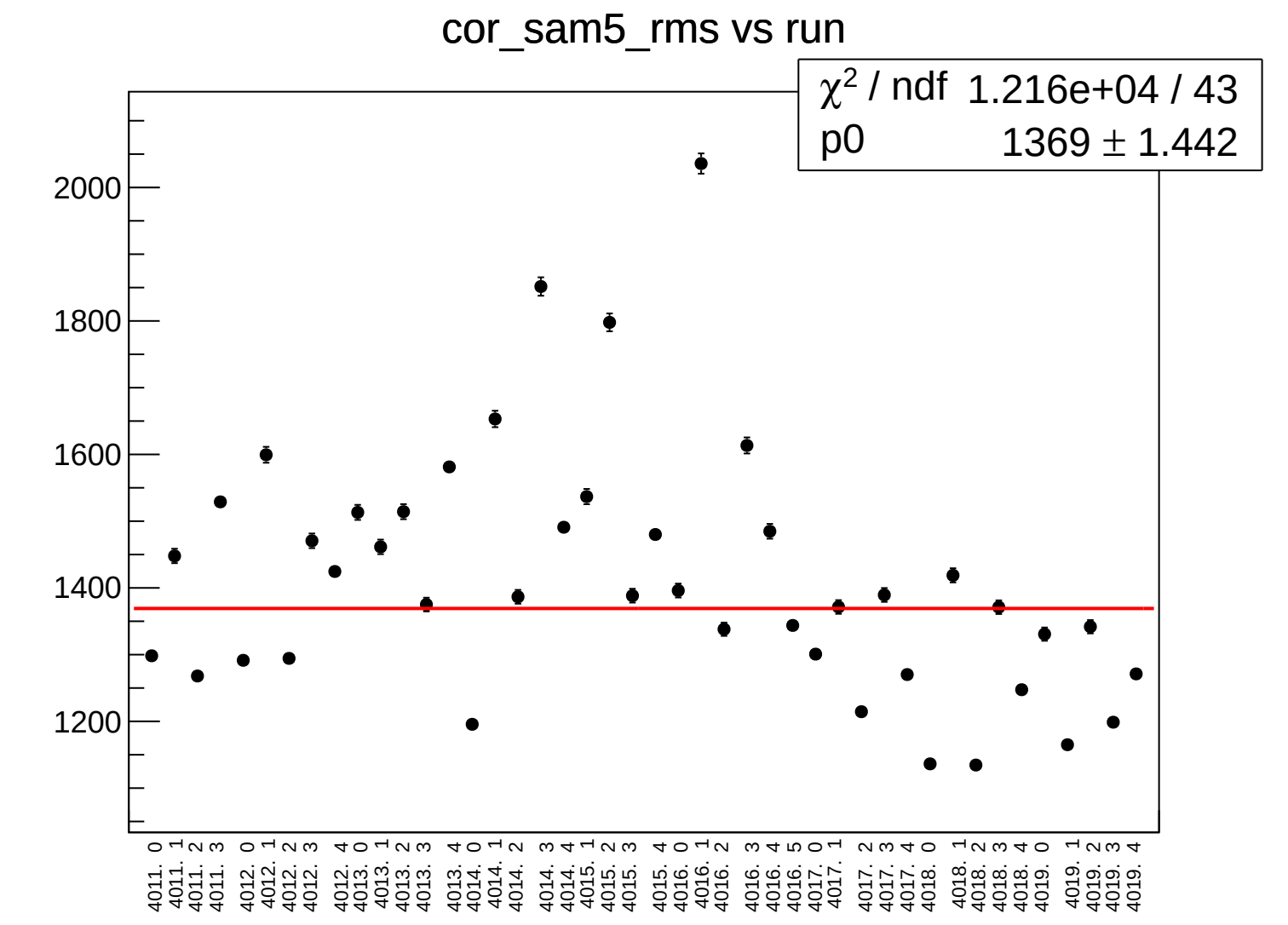

cor_sam3_rms vs run
χ² / ndf 1674 / 43
p0 9448 ± 9.892
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

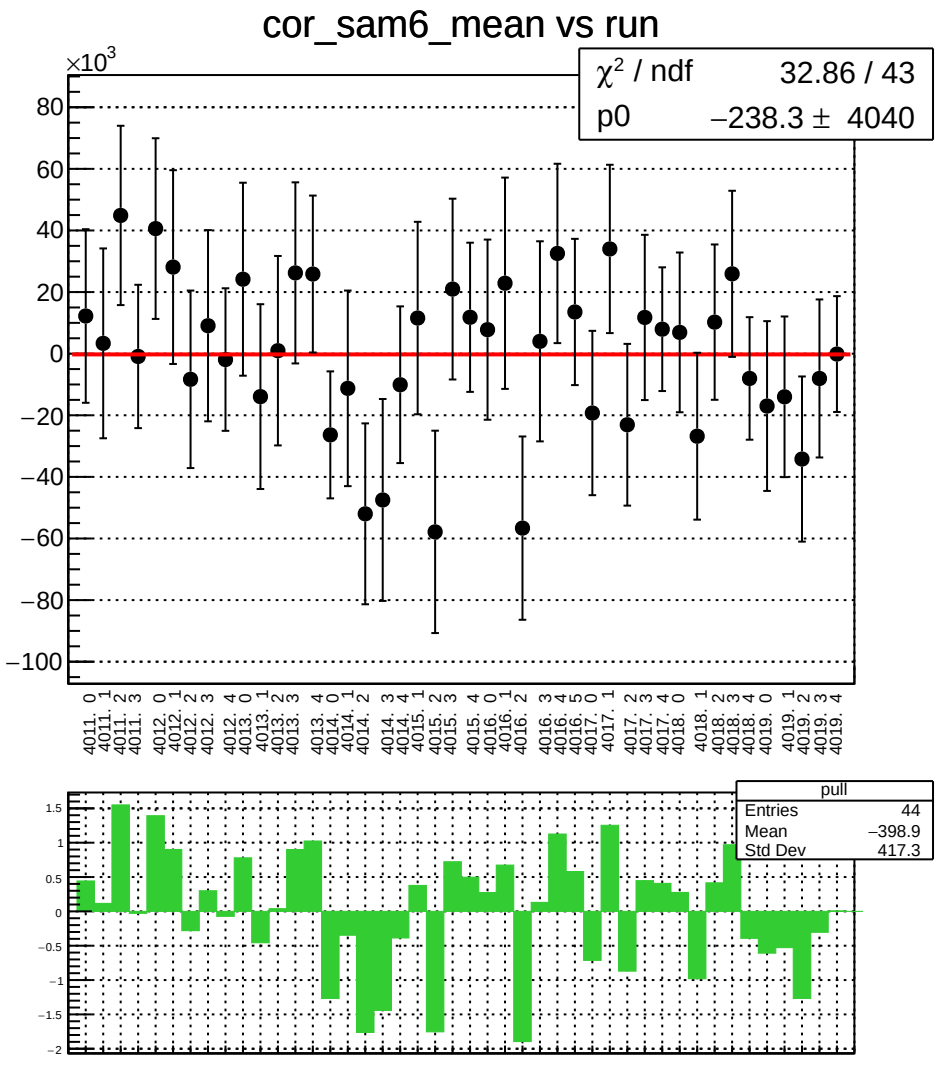

cor_sam4_mean vs run
×10^3
χ^2 / ndf 47.74 / 43
p0 1820 ± 8099
200
100
0
−100
−200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 50.31
Std Dev 15.78
3
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.0185
Std Dev 1.042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

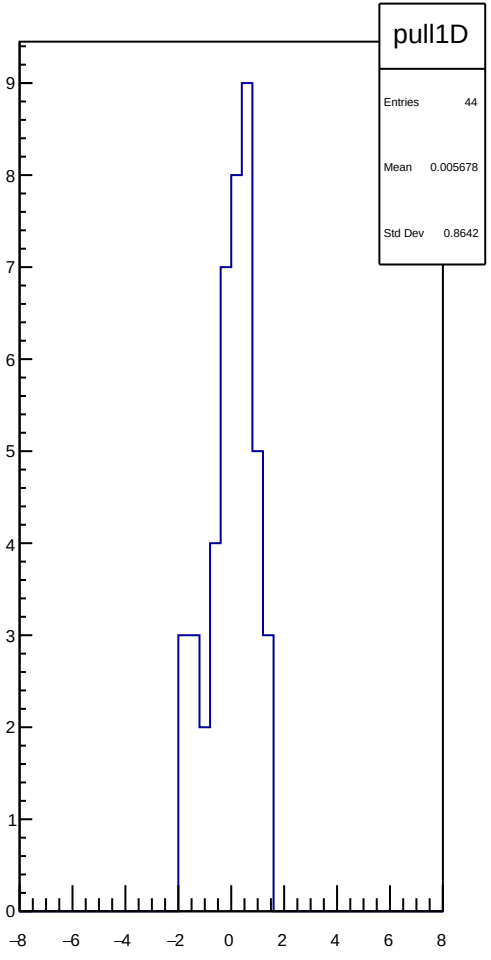

cor_sam4_rms vs run
χ² / ndf 1945 / 43
p0 5469 ± 5.727
6200
6000
5800
5600
5400
5200
5000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

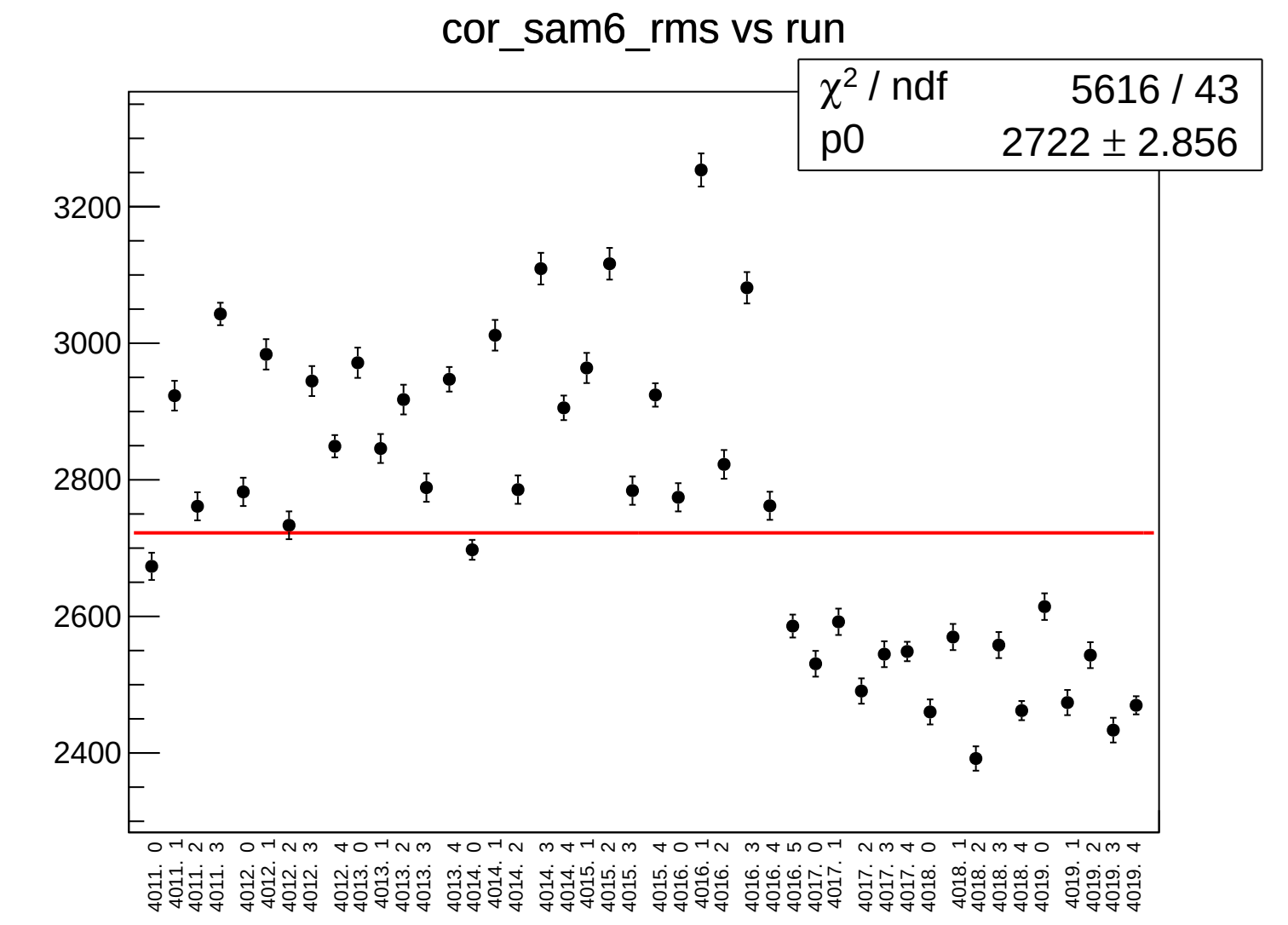

cor_sam5_mean vs run
χ² / ndf 55.74 / 43
p0 672.9 ± 2039
60000
40000
20000
0
−20000
−40000
−60000
−80000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 179.9
Std Dev 158.6
2
1
0
−1
−2

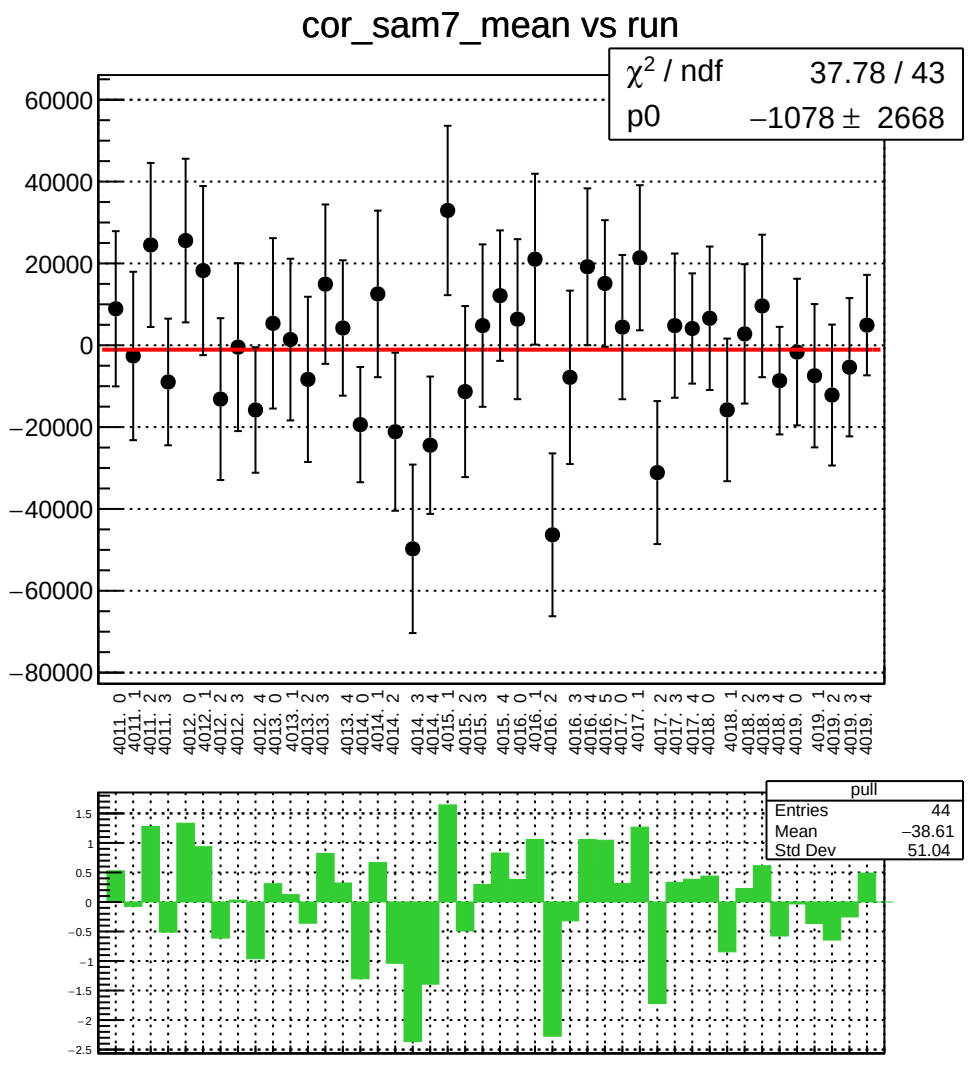

pull1D
Entries 44
Mean −0.02306
Std Dev 1.125
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

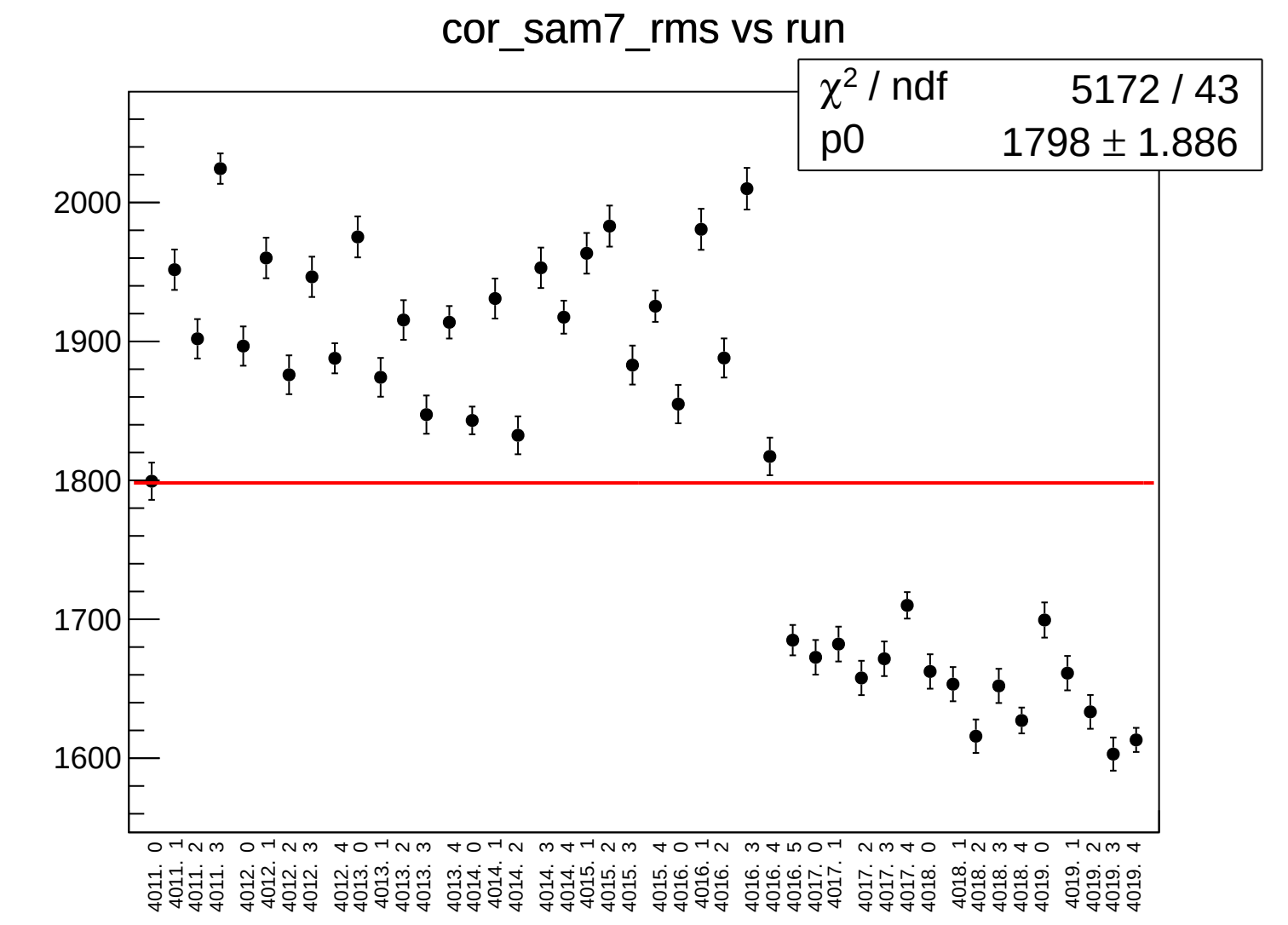

cor_sam5_rms vs run
χ² / ndf 1.216e+04 / 43
p0 1369 ± 1.442
2000
1800
1600
1400
1200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

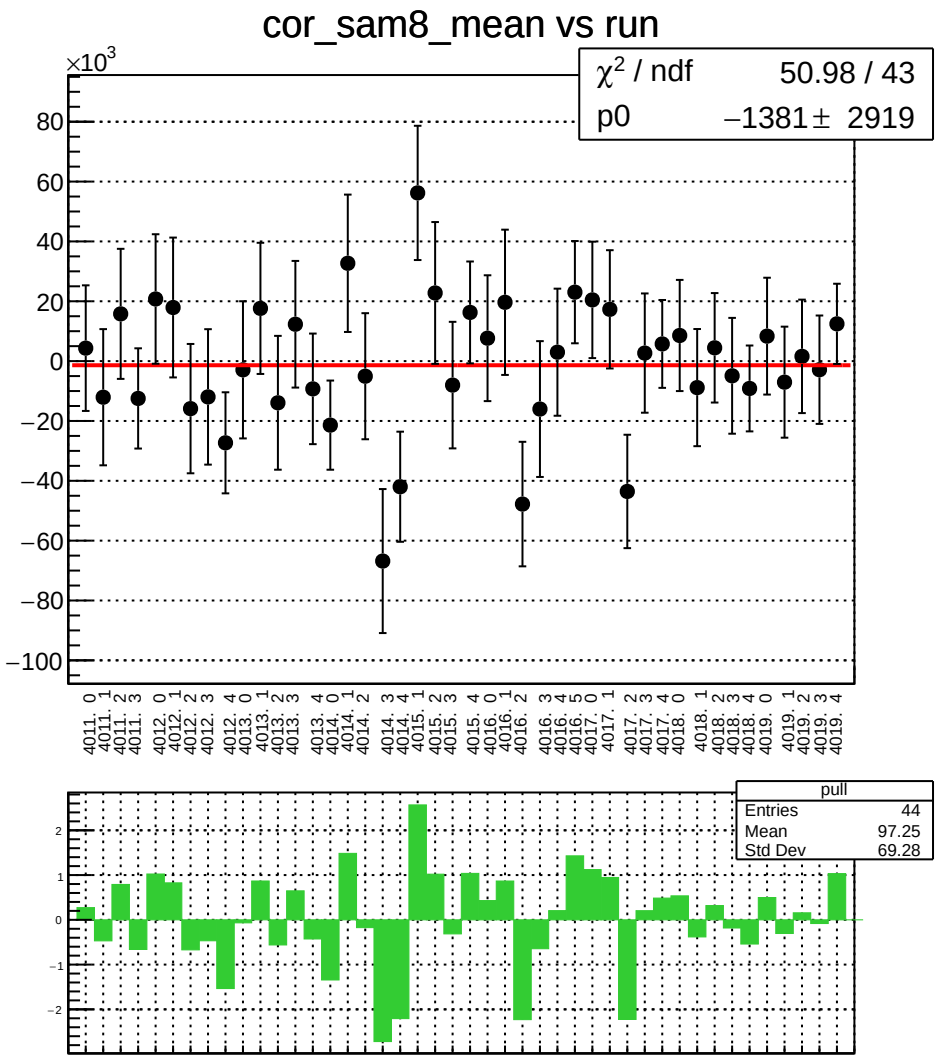

cor_sam6_mean vs run
×10^3
χ² / ndf 32.86 / 43
p0 −238.3 ± 4040
80
60
40
20
0
−20
−40
−60
−80
−100
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −398.9
Std Dev 417.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

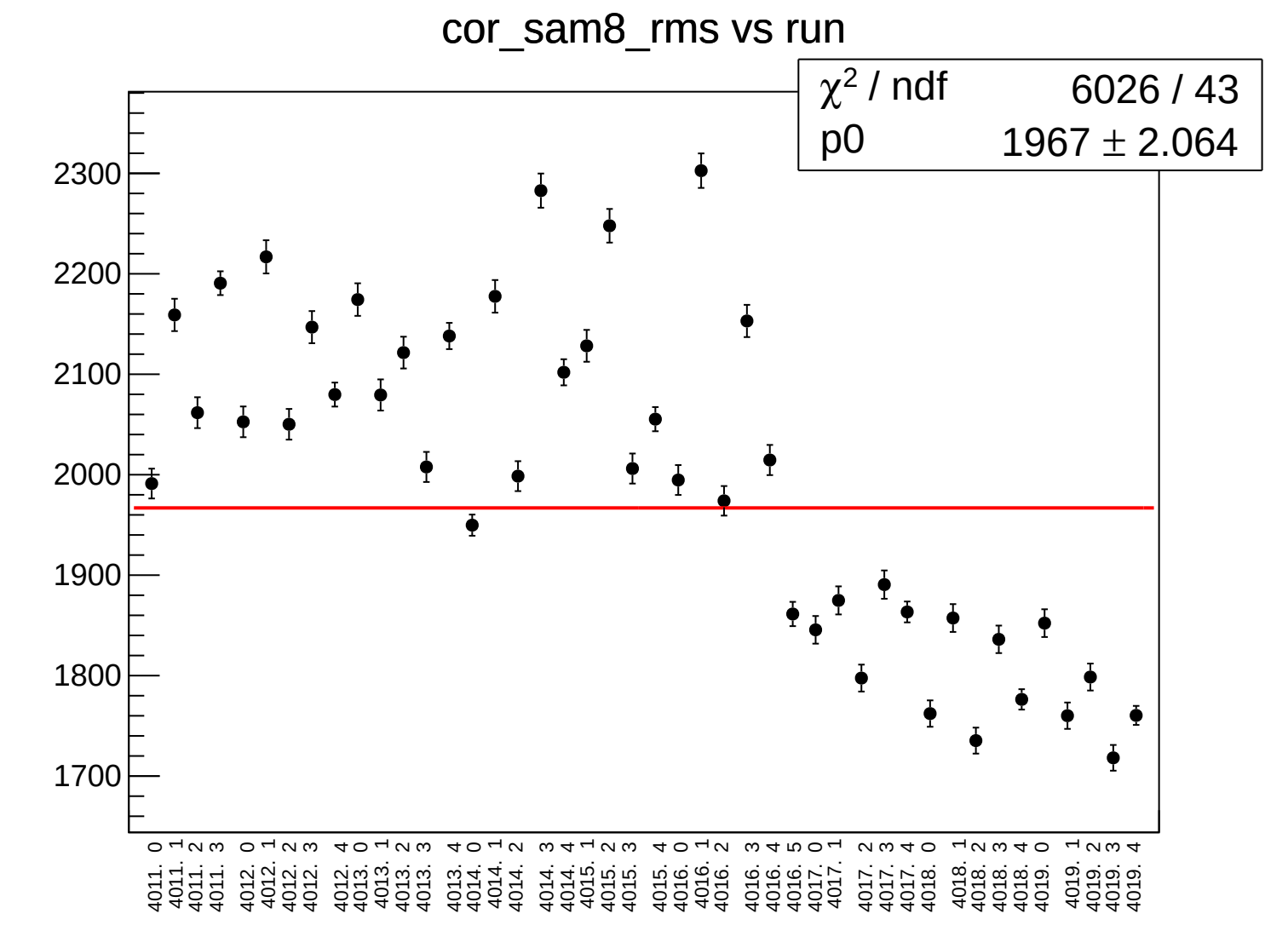

pull1D
Entries 44
Mean 0.005678
Std Dev 0.8642
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

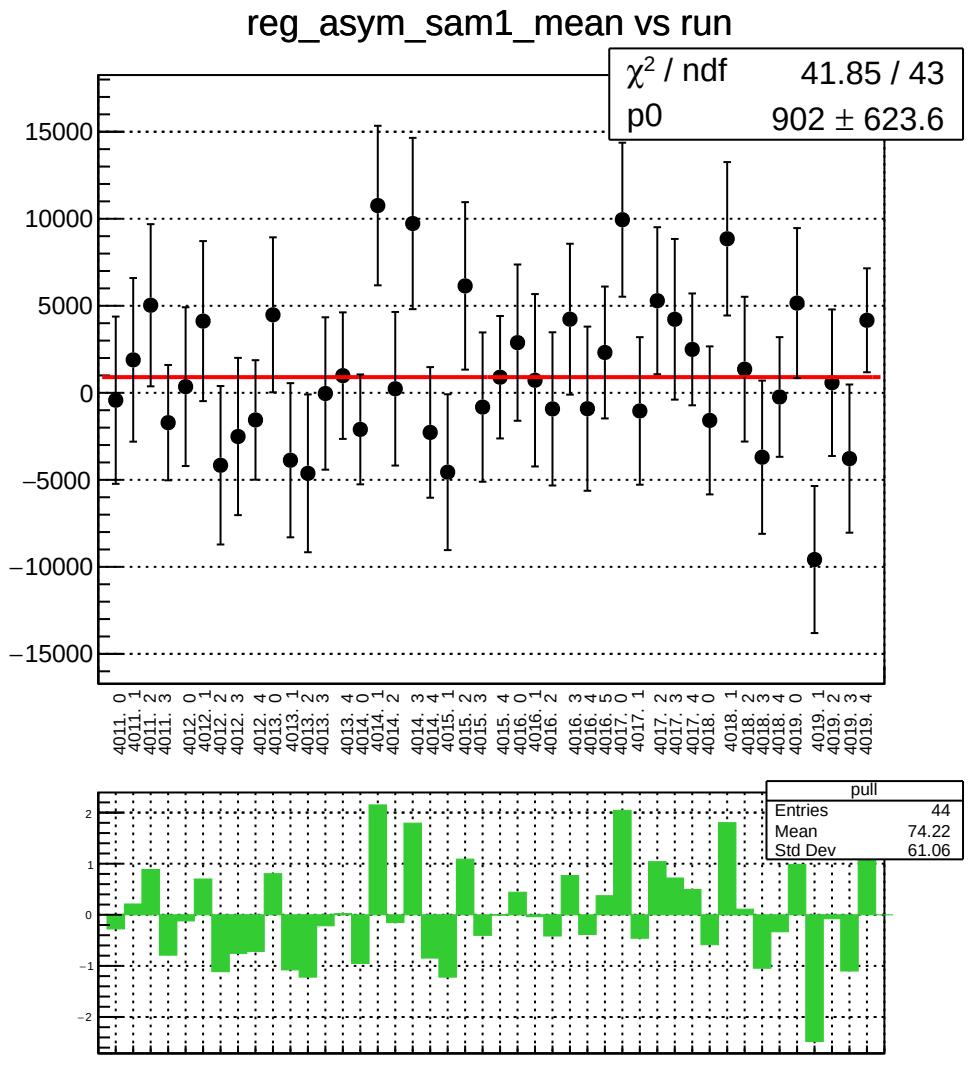

cor_sam6_rms vs run
χ² / ndf 5616 / 43
p0 2722 ± 2.856
3200
3000
2800
2600
2400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

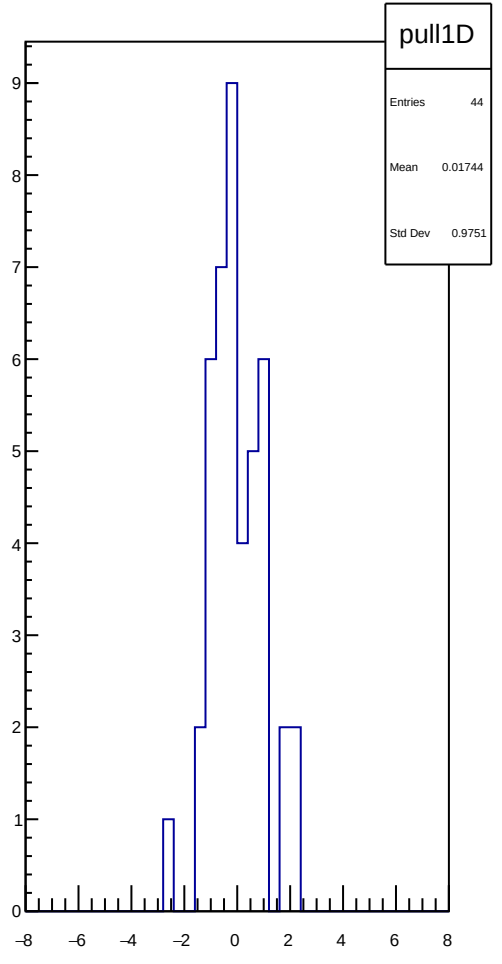

cor_sam7_mean vs run
χ² / ndf 37.78 / 43
p0 −1078 ± 2668
60000
40000
20000
0
−20000
−40000
−60000
−80000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −38.61
Std Dev 51.04
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 44
Mean 0.01373
Std Dev 0.9266
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

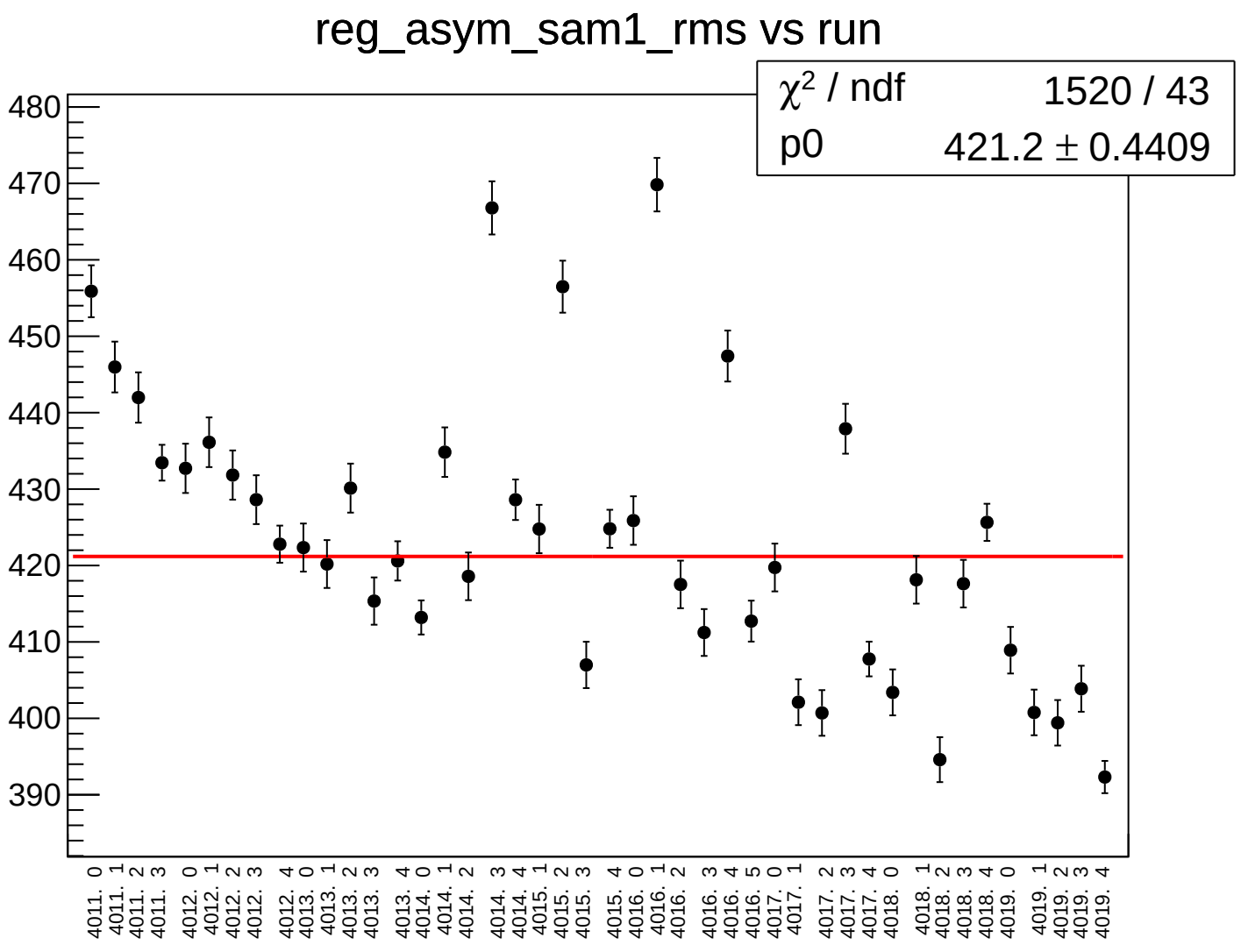

cor_sam7_rms vs run
χ² / ndf 5172 / 43
p0 1798 ± 1.886
2000
1900
1800
1700
1600
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

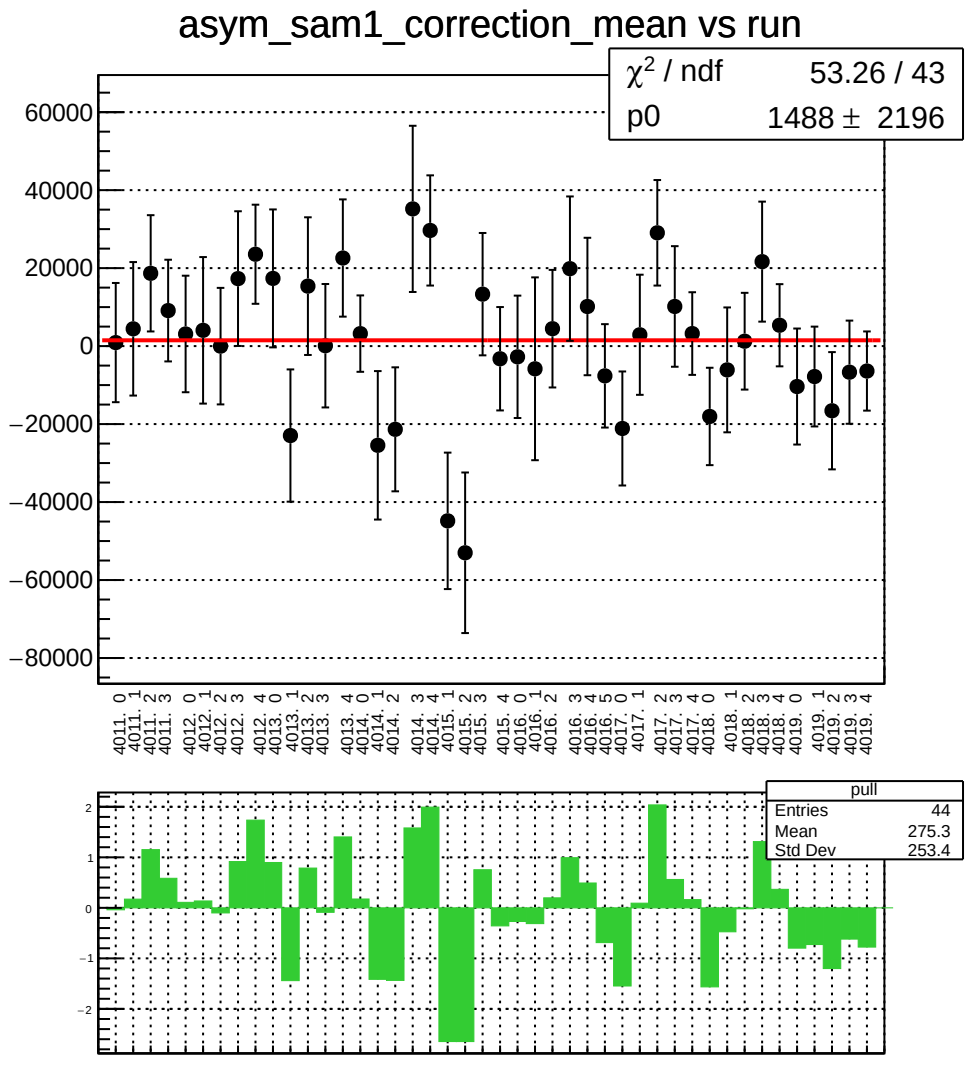

cor_sam8_mean vs run
×10^3
χ² / ndf 50.98 / 43
p0 −1381 ± 2919
80
60
40
20
0
−20
−40
−60
−80
−100
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 97.25
Std Dev 69.28
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.01266
Std Dev 1.076
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

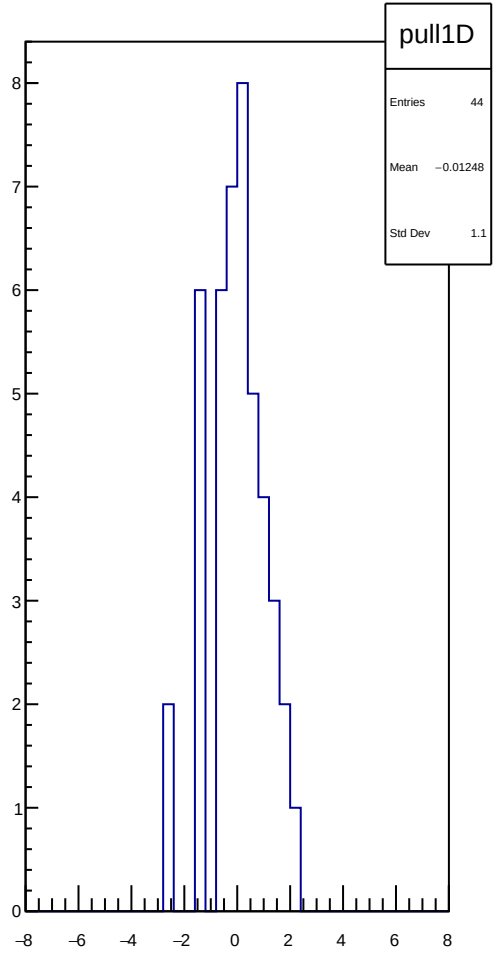

cor_sam8_rms vs run
χ² / ndf 6026 / 43
p0 1967 ± 2.064
2300
2200
2100
2000
1900
1800
1700
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

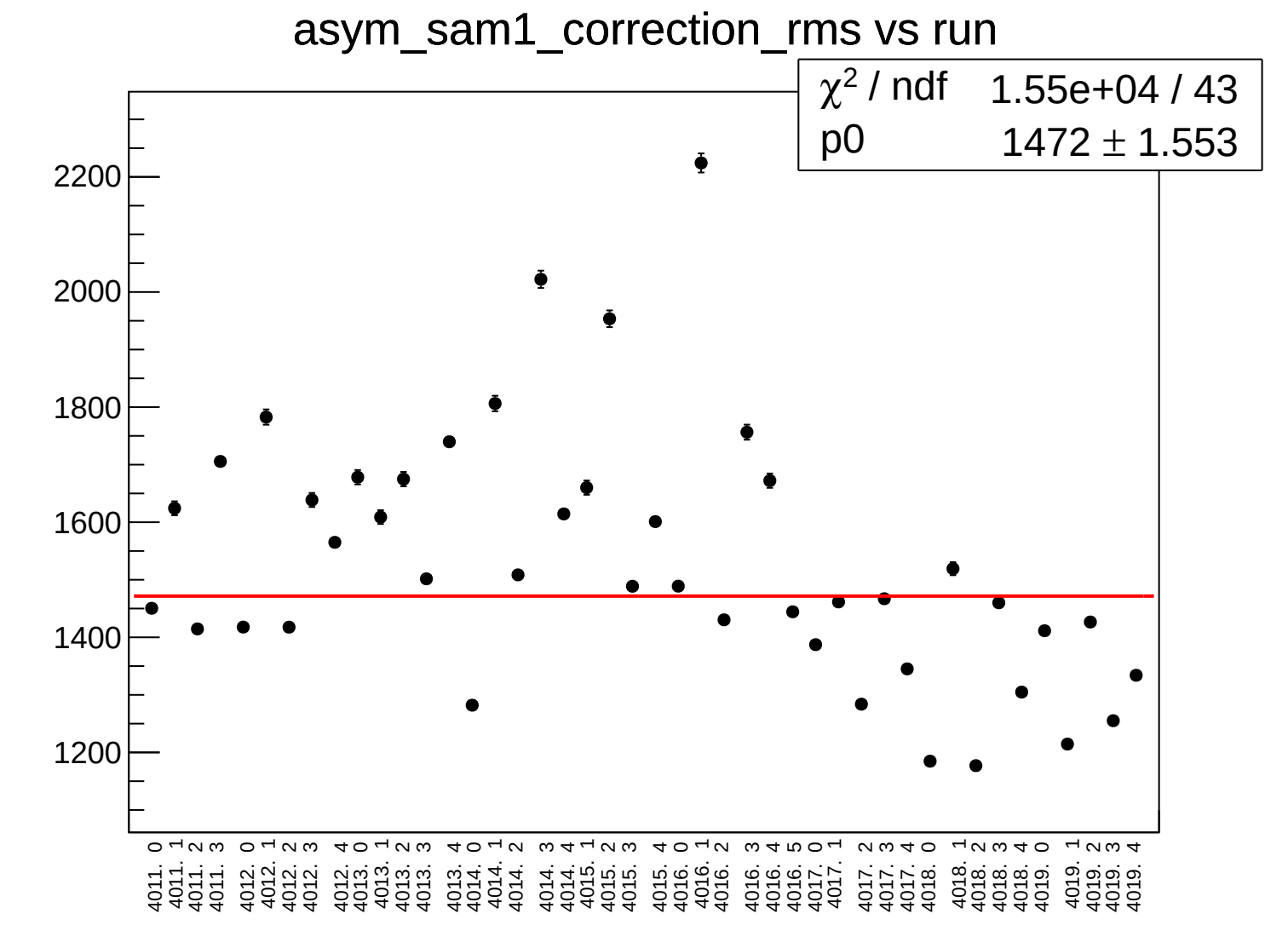

reg_asym_sam1_mean vs run
χ² / ndf 41.85 / 43
p0 902 ± 623.6
15000
10000
5000
0
−5000
−10000
−15000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 74.22
Std Dev 61.06
2
1
0
−1
−2

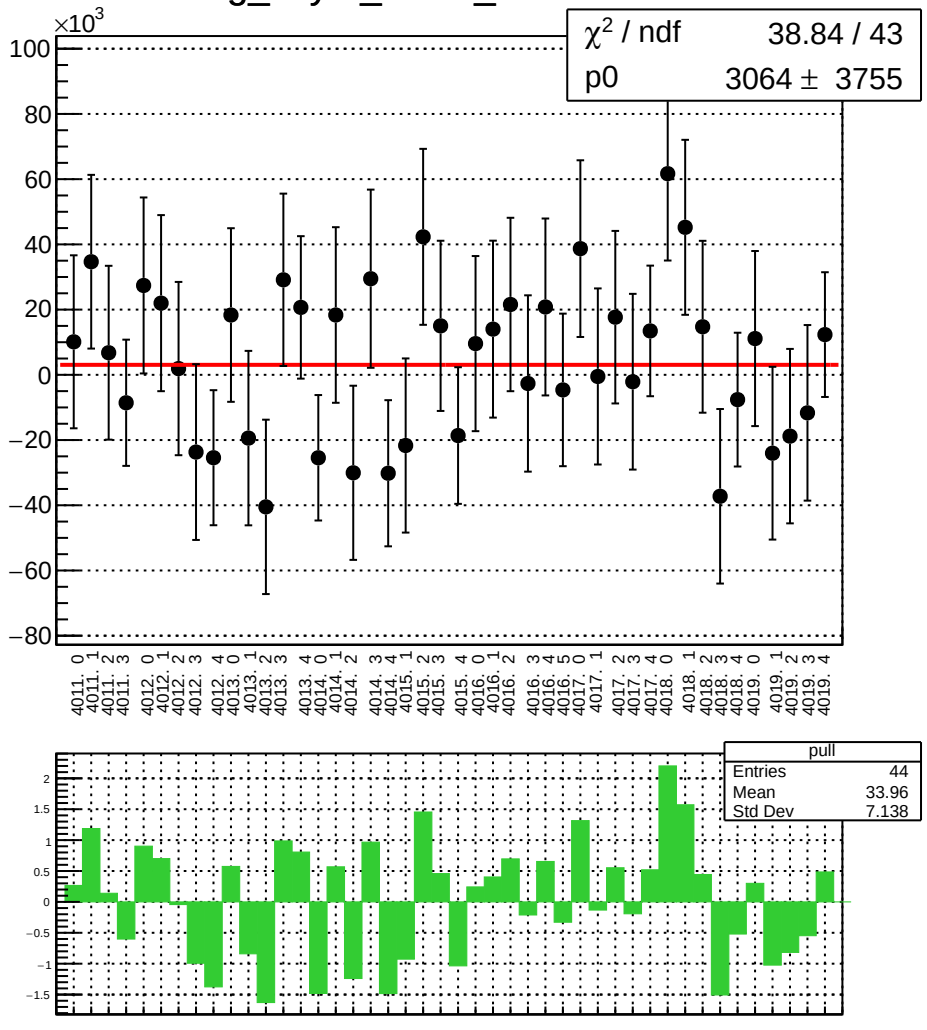

pull1D
Entries 44
Mean 0.01744
Std Dev 0.9751
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

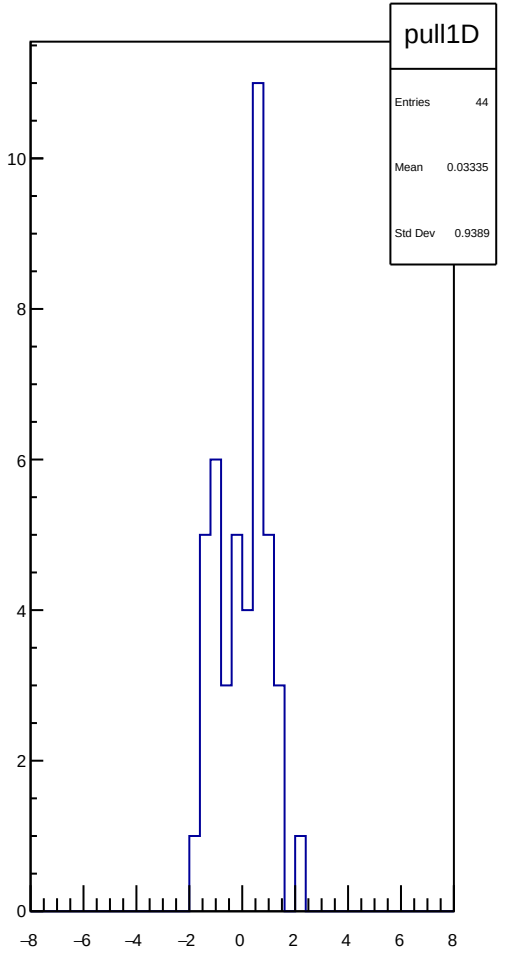

reg_asym_sam1_rms vs run
χ² / ndf 1520 / 43
p0 421.2 ± 0.4409
480
470
460
450
440
430
420
410
400
390
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

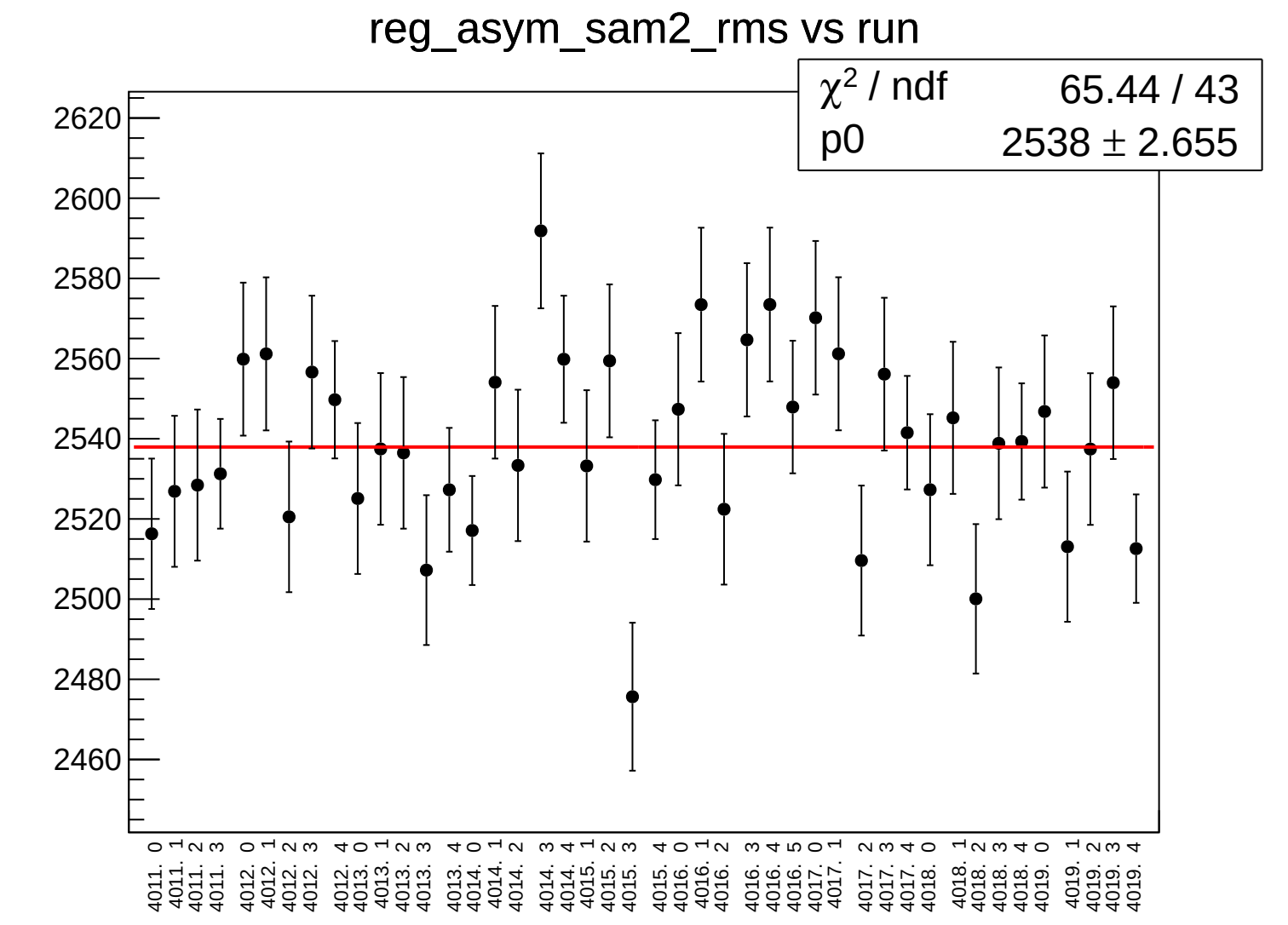

asym_sam1_correction_mean vs run
χ² / ndf 53.26 / 43
p0 1488 ± 2196
60000
40000
20000
0
−20000
−40000
−60000
−80000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 275.3
Std Dev 253.4
2
1
0
−1
−2

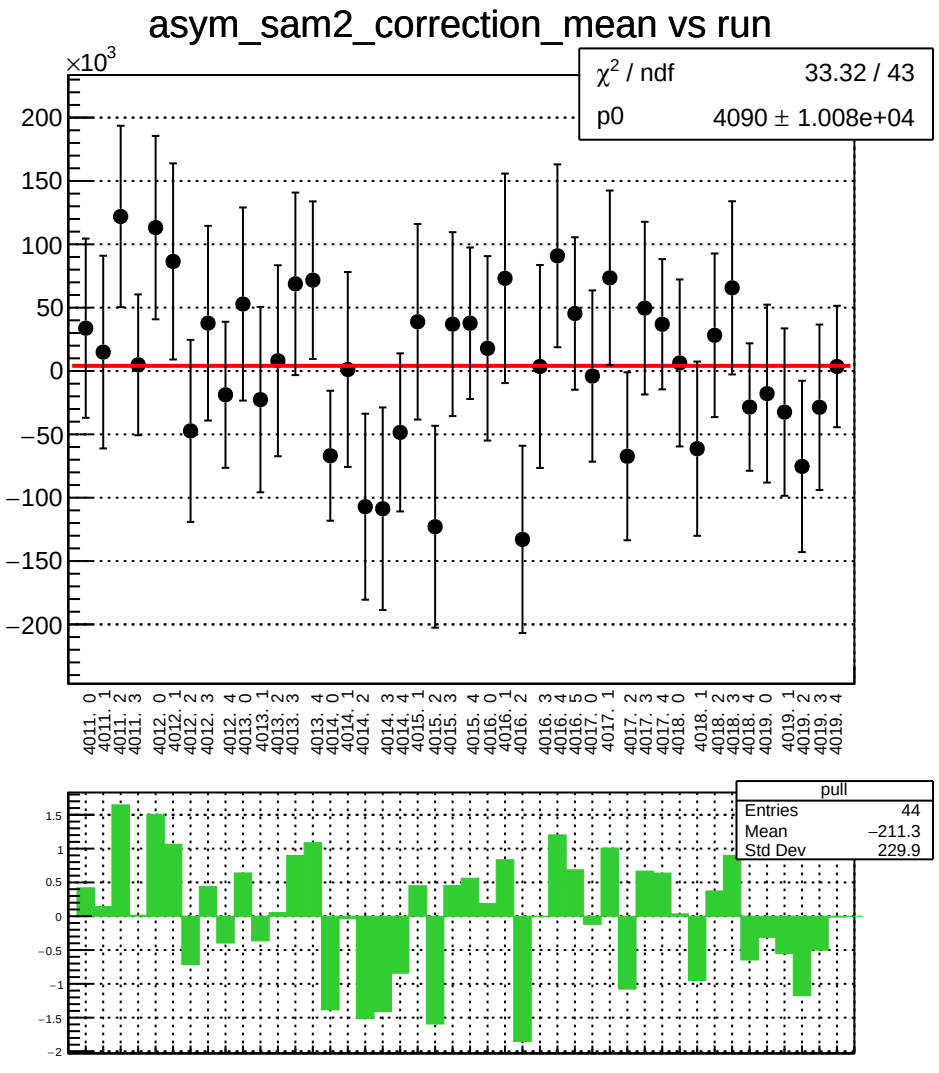

pull1D
Entries 44
Mean −0.01248
Std Dev 1.1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

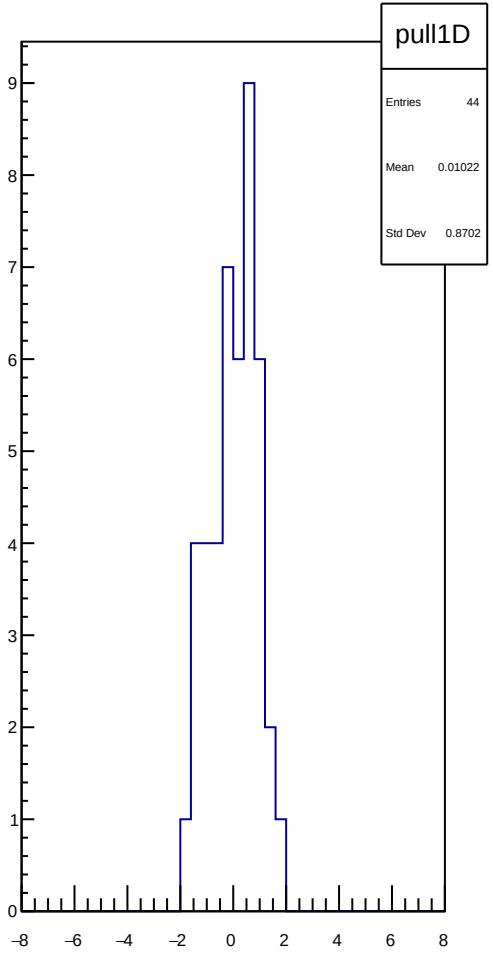

asym_sam1_correction_rms vs run
χ² / ndf 1.55e+04 / 43
p0 1472 ± 1.553
2200
2000
1800
1600
1400
1200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

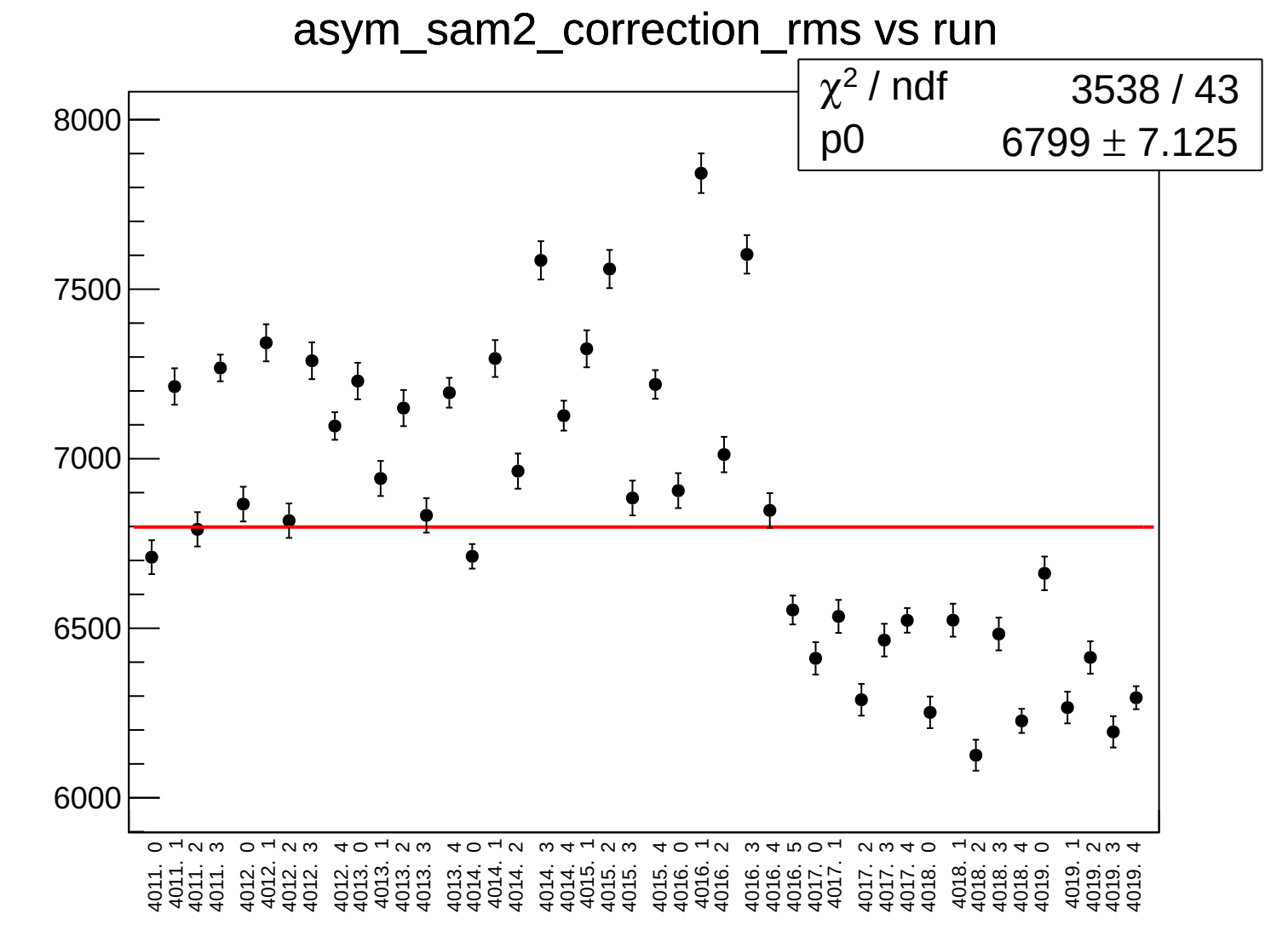

reg_asym_sam2_mean vs run
×10^3
χ² / ndf 38.84 / 43
p0 3064 ± 3755
pull
Entries 44
Mean 33.96
Std Dev 7.138

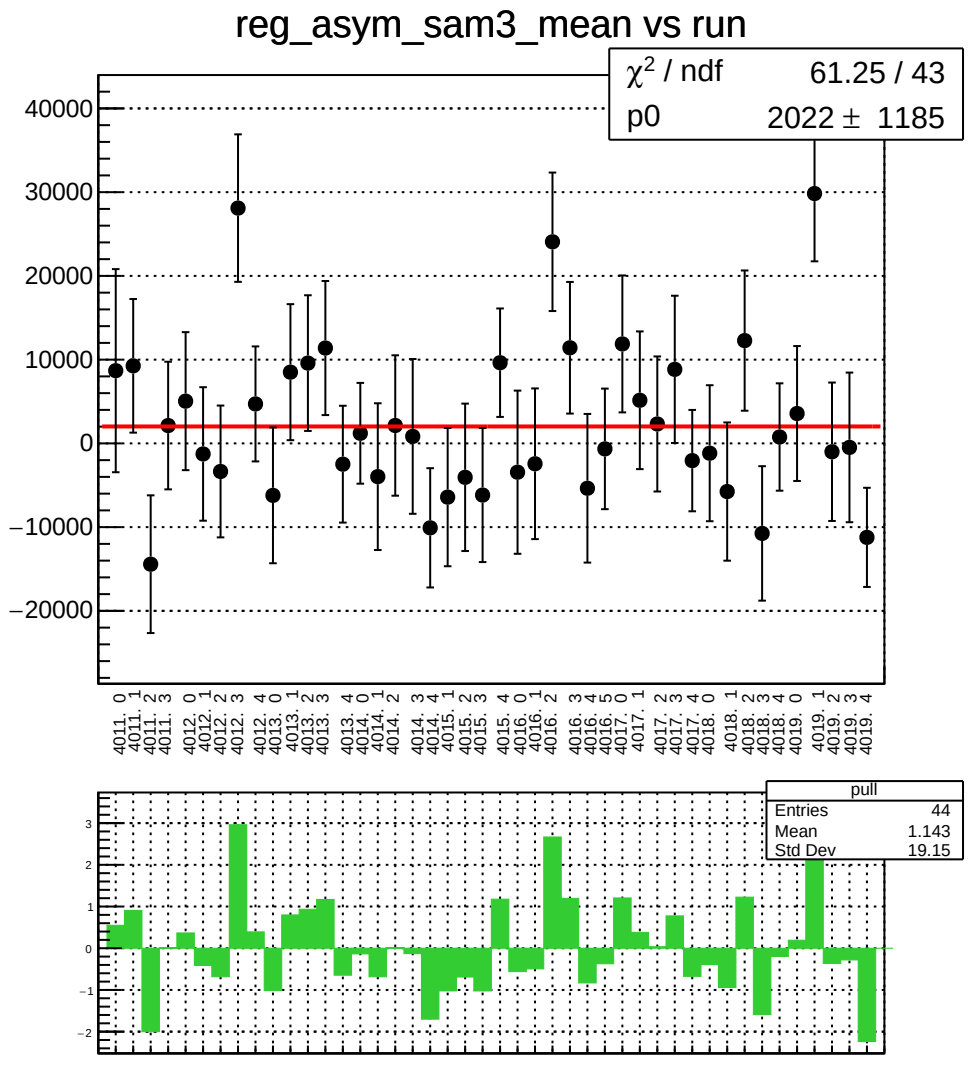

pull1D
Entries 44
Mean 0.03335
Std Dev 0.9389

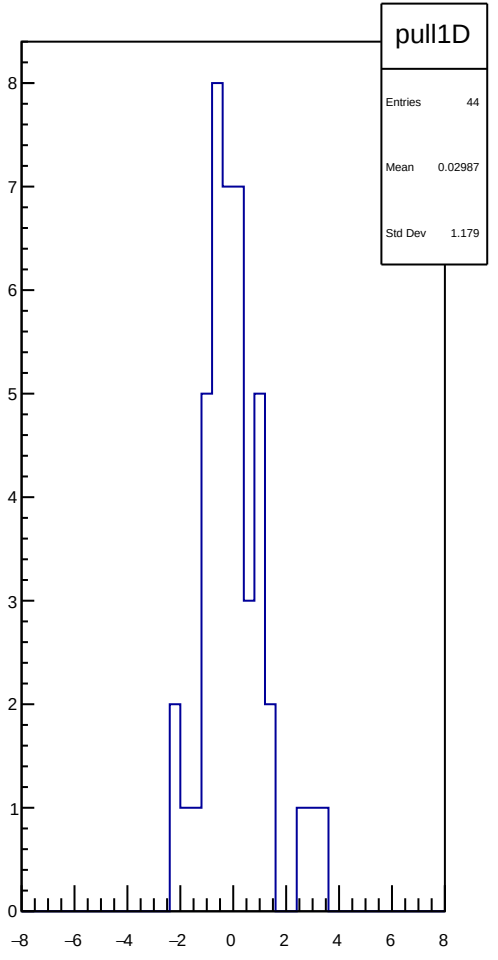

reg_asym_sam2_rms vs run
χ² / ndf 65.44 / 43
p0 2538 ± 2.655
2620
2600
2580
2560
2540
2520
2500
2480
2460
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

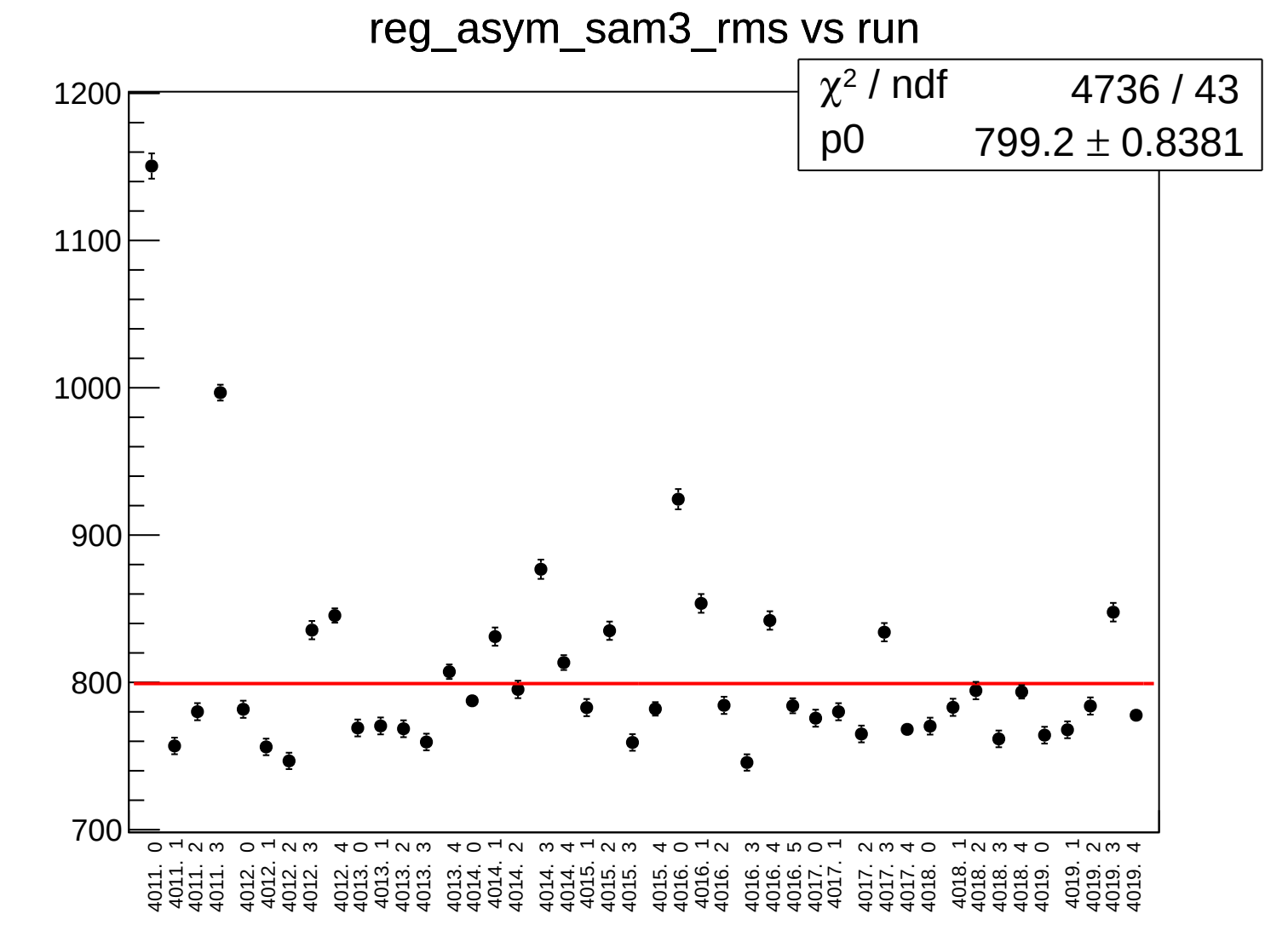

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 33.32 / 43
p0 4090 ± 1.008e+04
pull
Entries 44
Mean −211.3
Std Dev 229.9

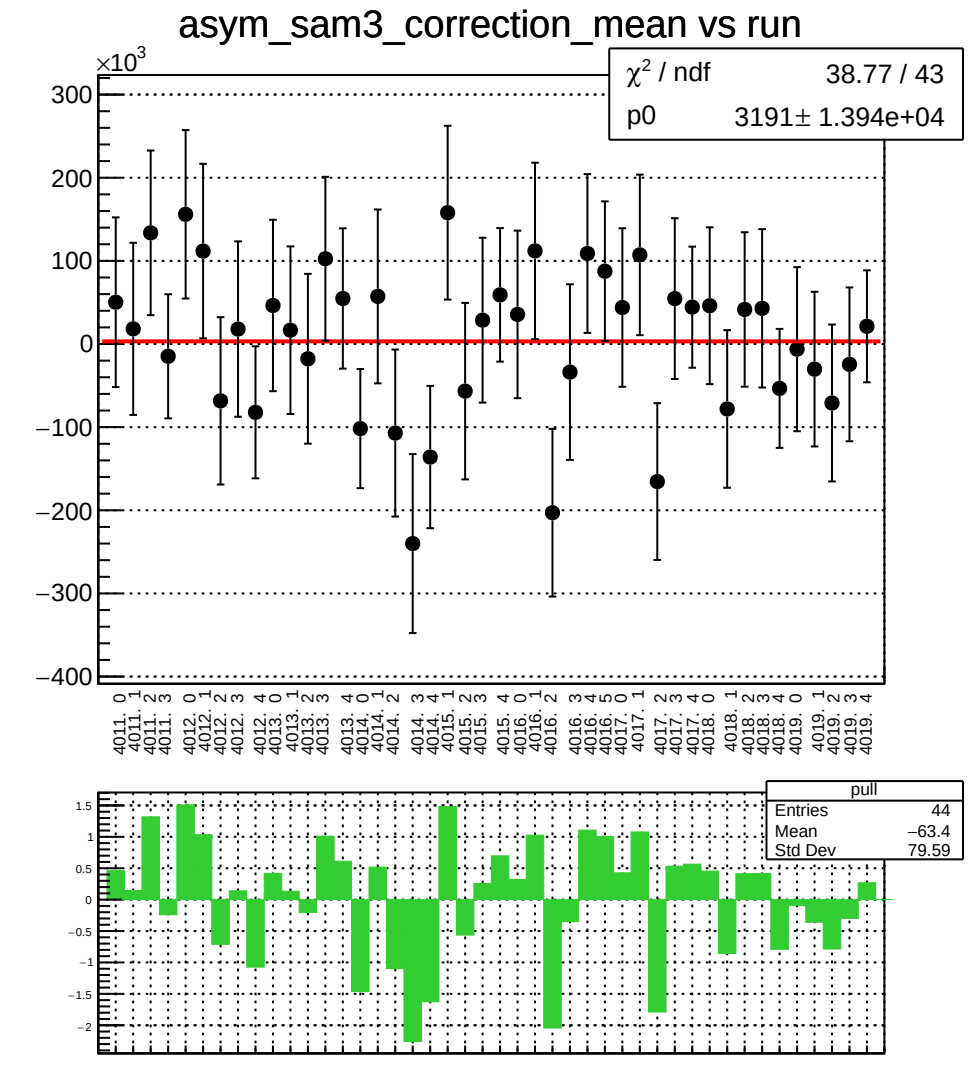

pull1D
Entries 44
Mean 0.01022
Std Dev 0.8702

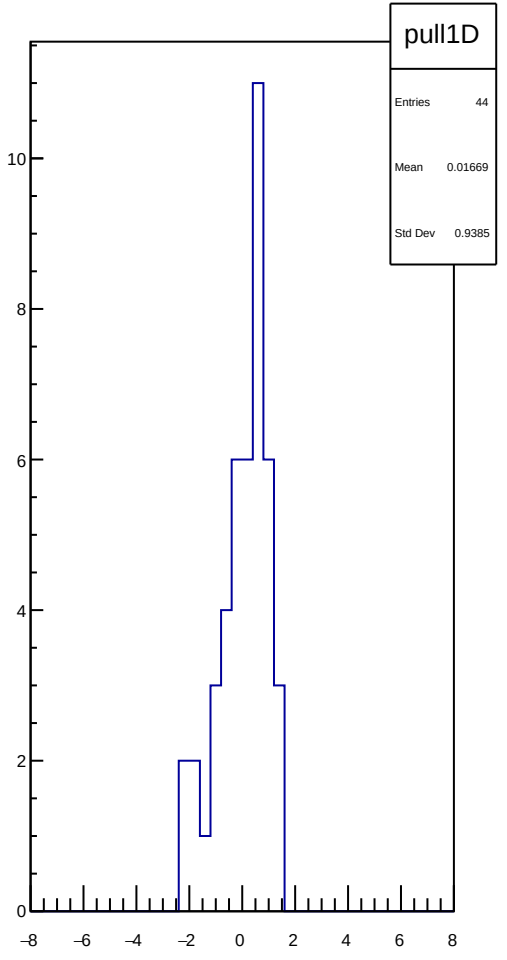

asym_sam2_correction_rms vs run
χ² / ndf 3538 / 43
p0 6799 ± 7.125
8000
7500
7000
6500
6000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

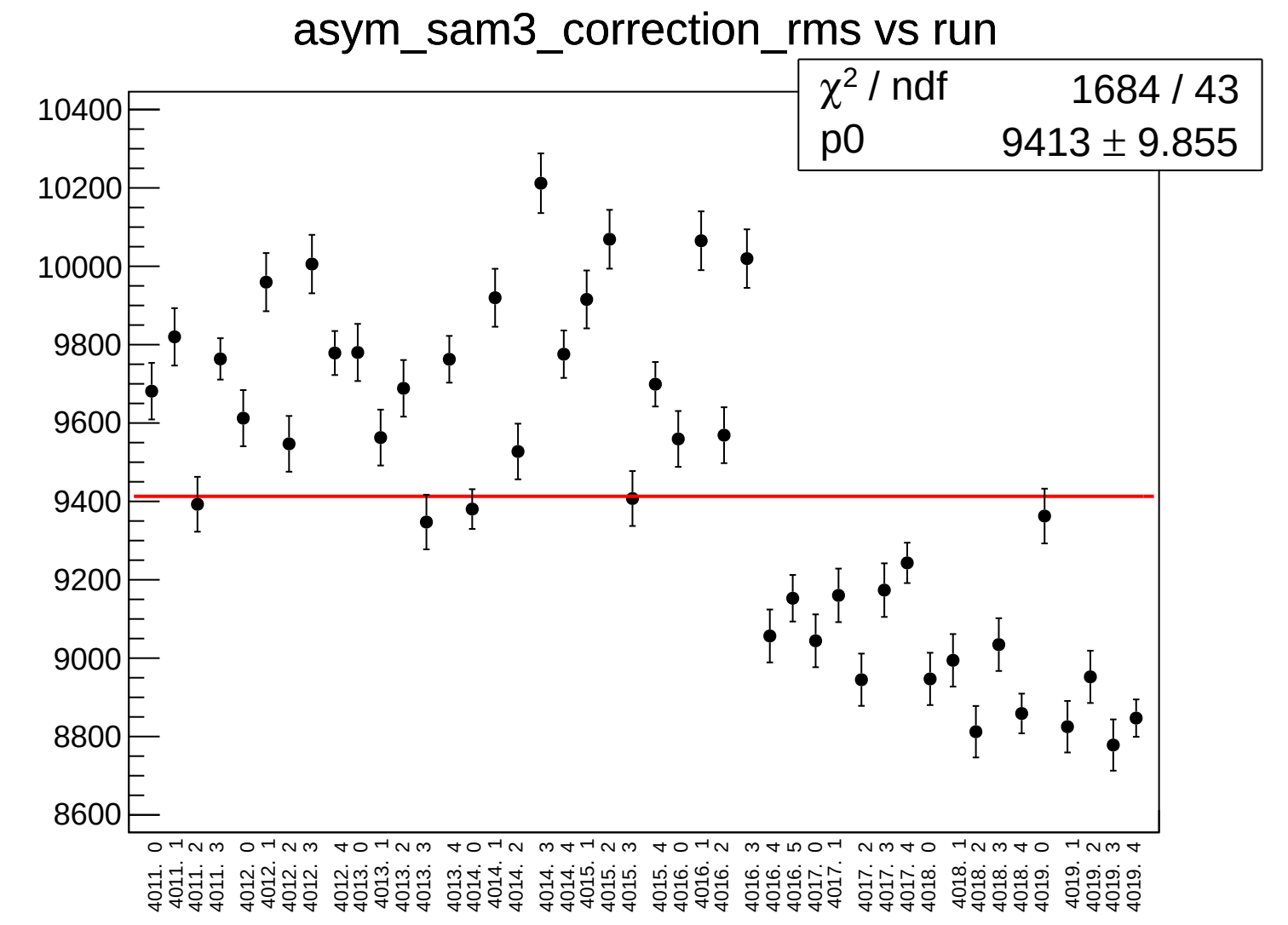

reg_asym_sam3_mean vs run
χ² / ndf 61.25 / 43
p0 2022 ± 1185
40000
30000
20000
10000
0
−10000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 1.143
Std Dev 19.15
3
2
1
0
−1
−2

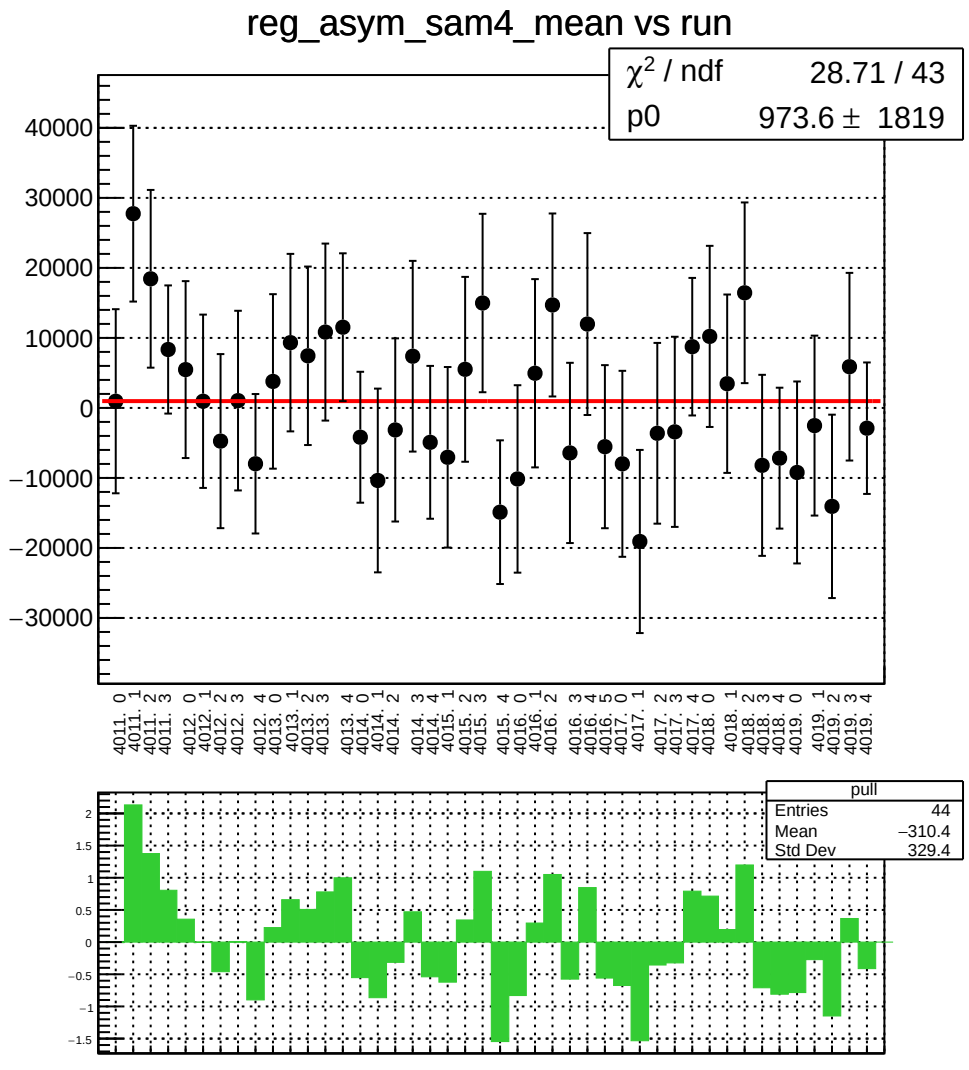

pull1D
Entries 44
Mean 0.02987
Std Dev 1.179
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

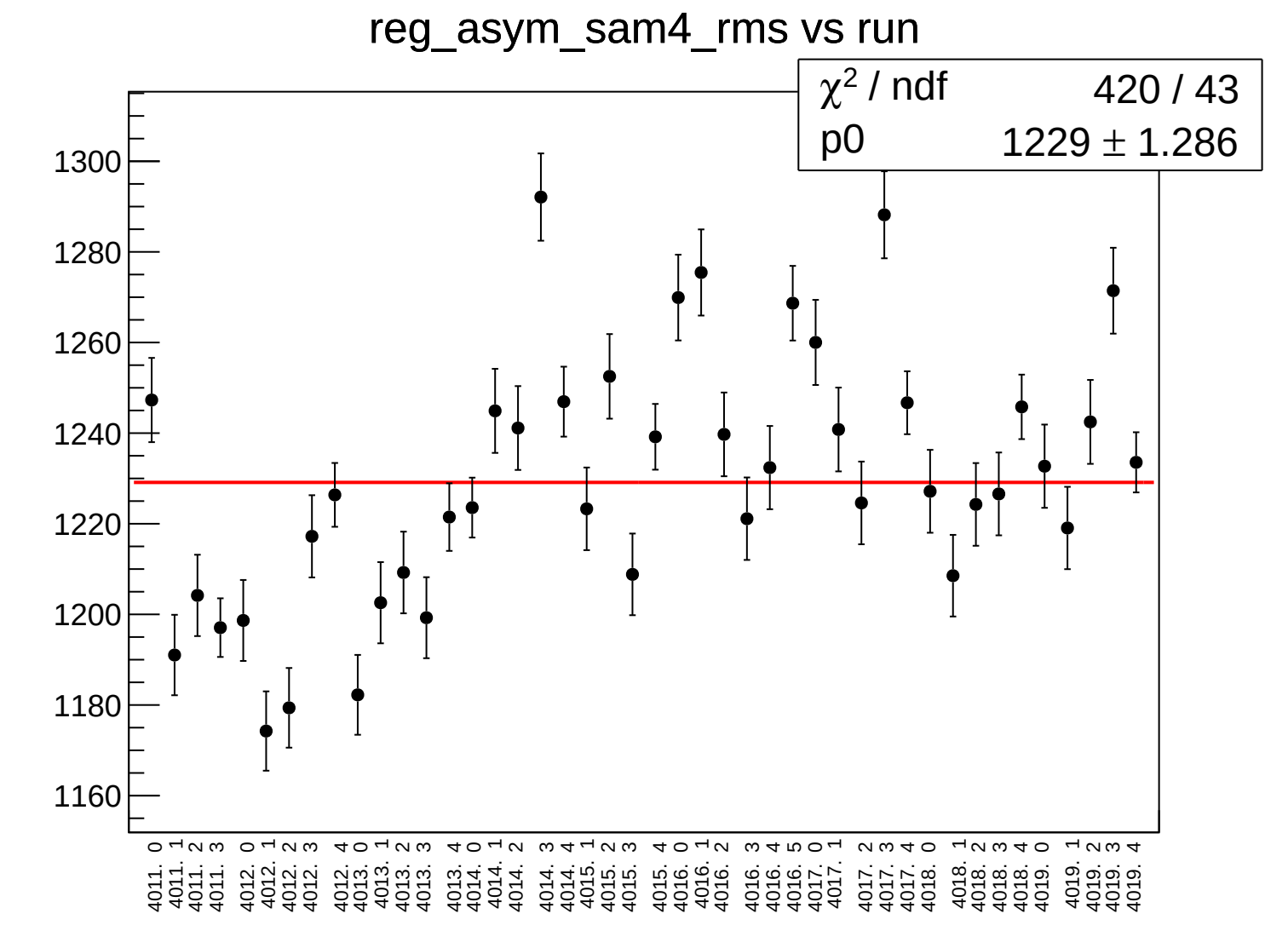

reg_asym_sam3_rms vs run
χ² / ndf 4736 / 43
p0 799.2 ± 0.8381
1200
1100
1000
900
800
700
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

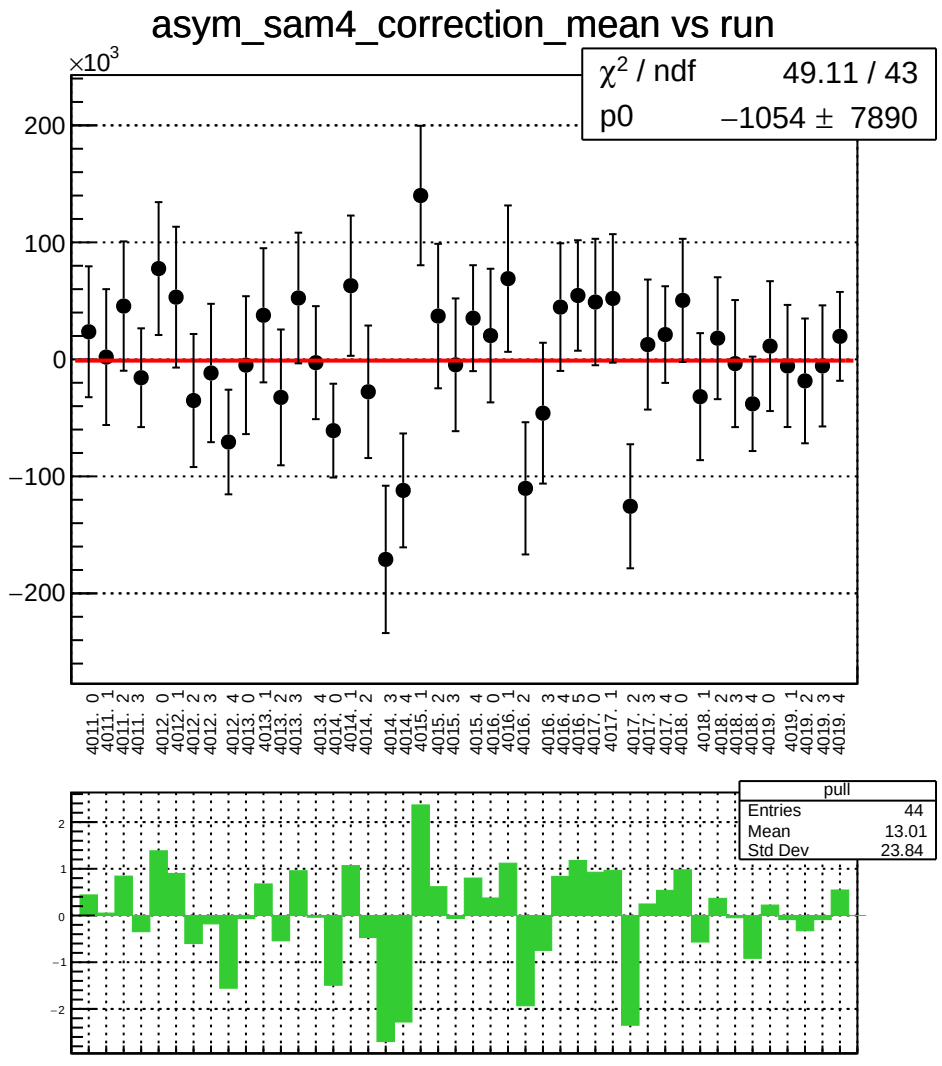

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 38.77 / 43
p0 3191± 1.394e+04
300
200
100
0
−100
−200
−300
−400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −63.4
Std Dev 79.59
1.5
1
0.5
0
−0.5
−1
−1.5
−2

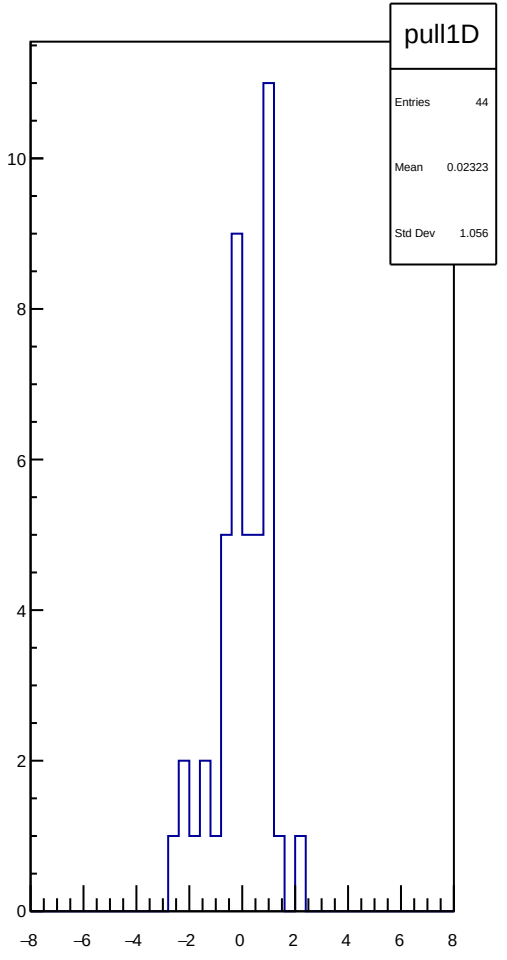

pull1D
Entries 44
Mean 0.01669
Std Dev 0.9385
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

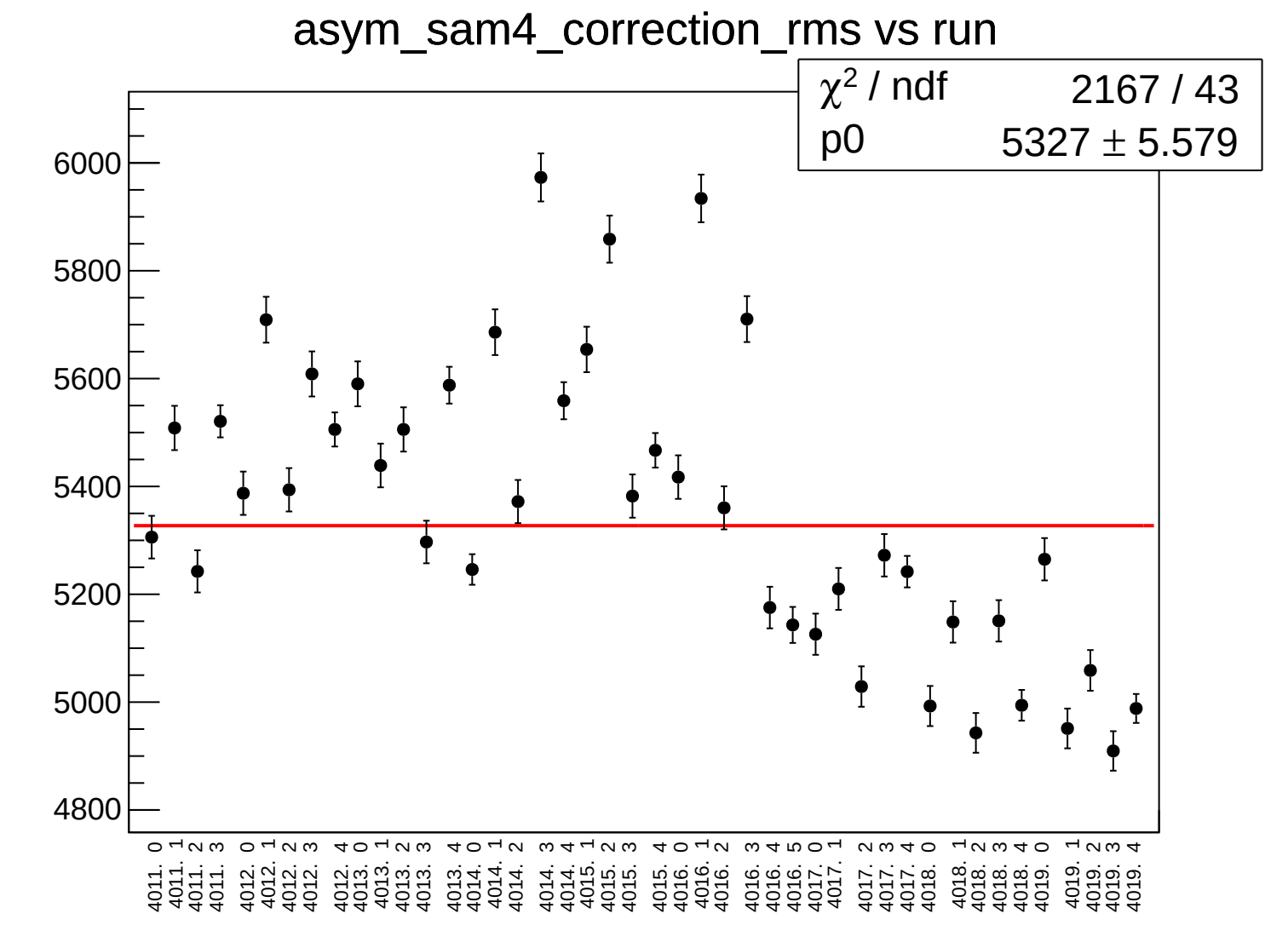

asym_sam3_correction_rms vs run
χ² / ndf 1684 / 43
p0 9413 ± 9.855
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

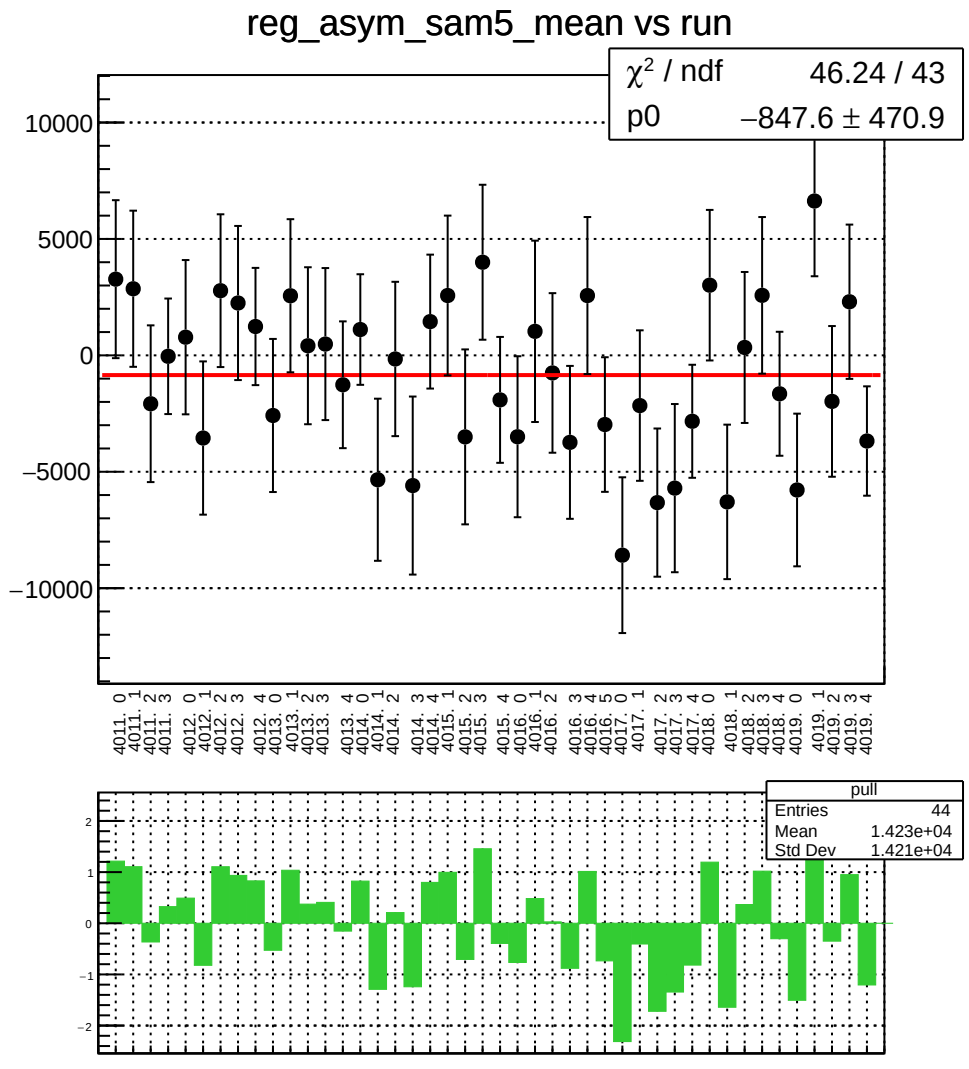

reg_asym_sam4_mean vs run
χ^2 / ndf 28.71 / 43
p0 973.6 ± 1819
40000
30000
20000
10000
0
−10000
−20000
−30000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −310.4
Std Dev 329.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean 0.009925
Std Dev 0.8078
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

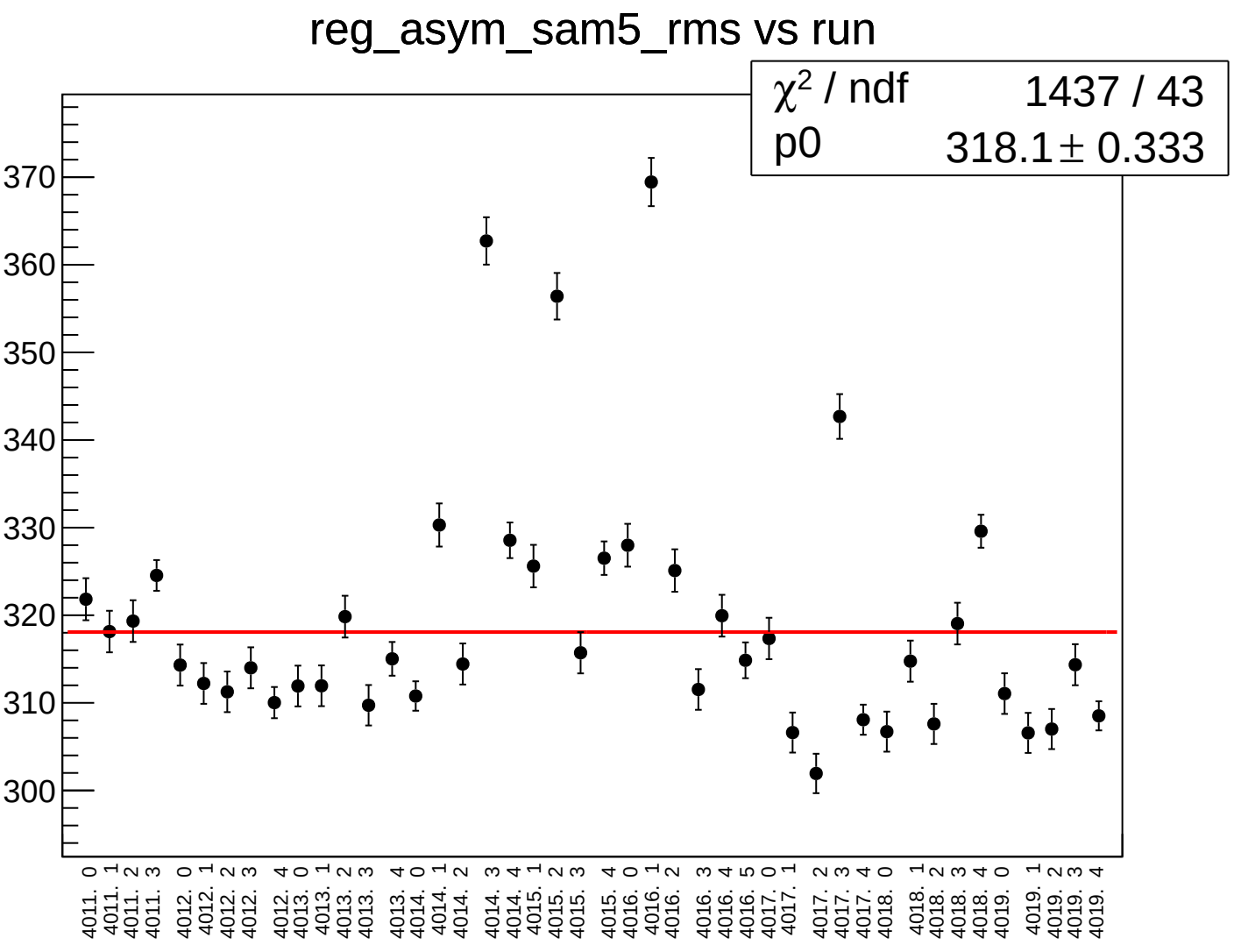

reg_asym_sam4_rms vs run
χ² / ndf 420 / 43
p0 1229 ± 1.286
1300
1280
1260
1240
1220
1200
1180
1160
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

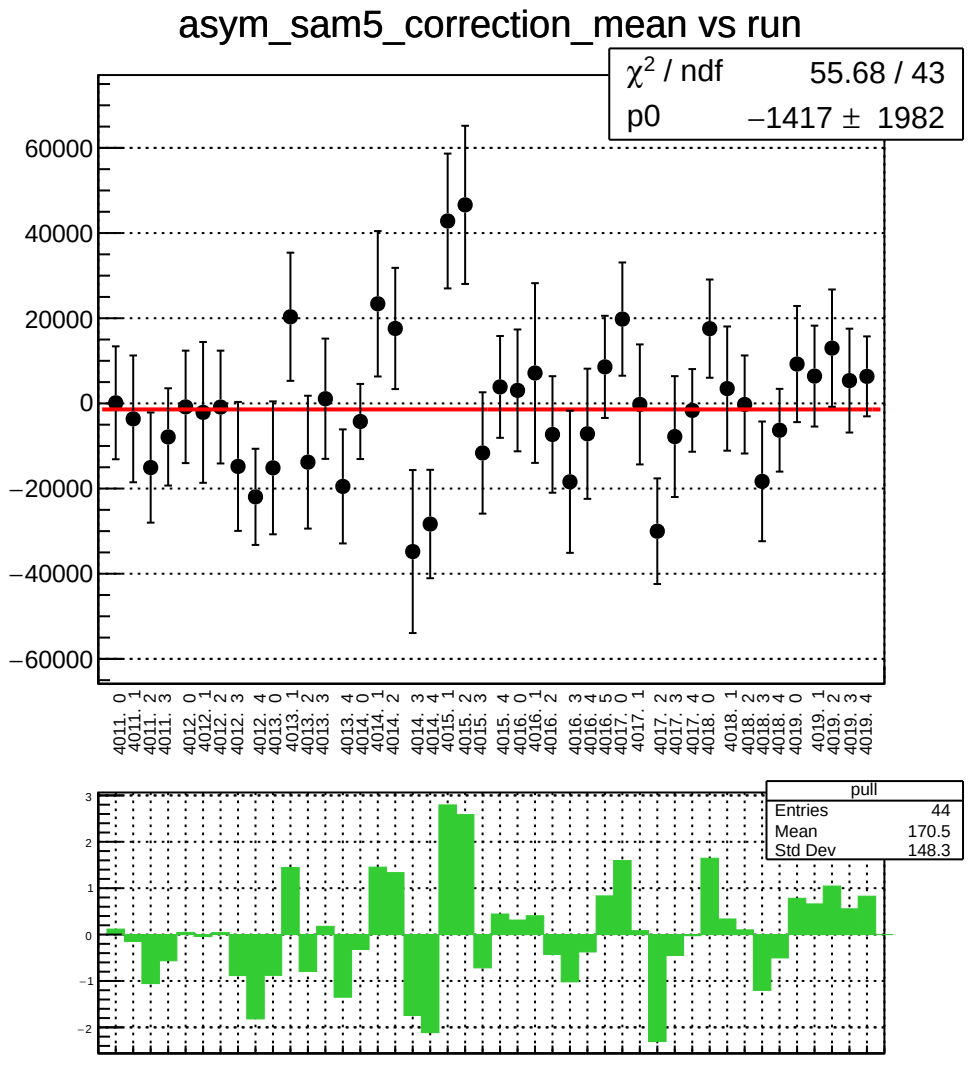

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 49.11 / 43
p0 −1054 ± 7890
200
100
0
−100
−200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 13.01
Std Dev 23.84
2
1
0
−1
−2

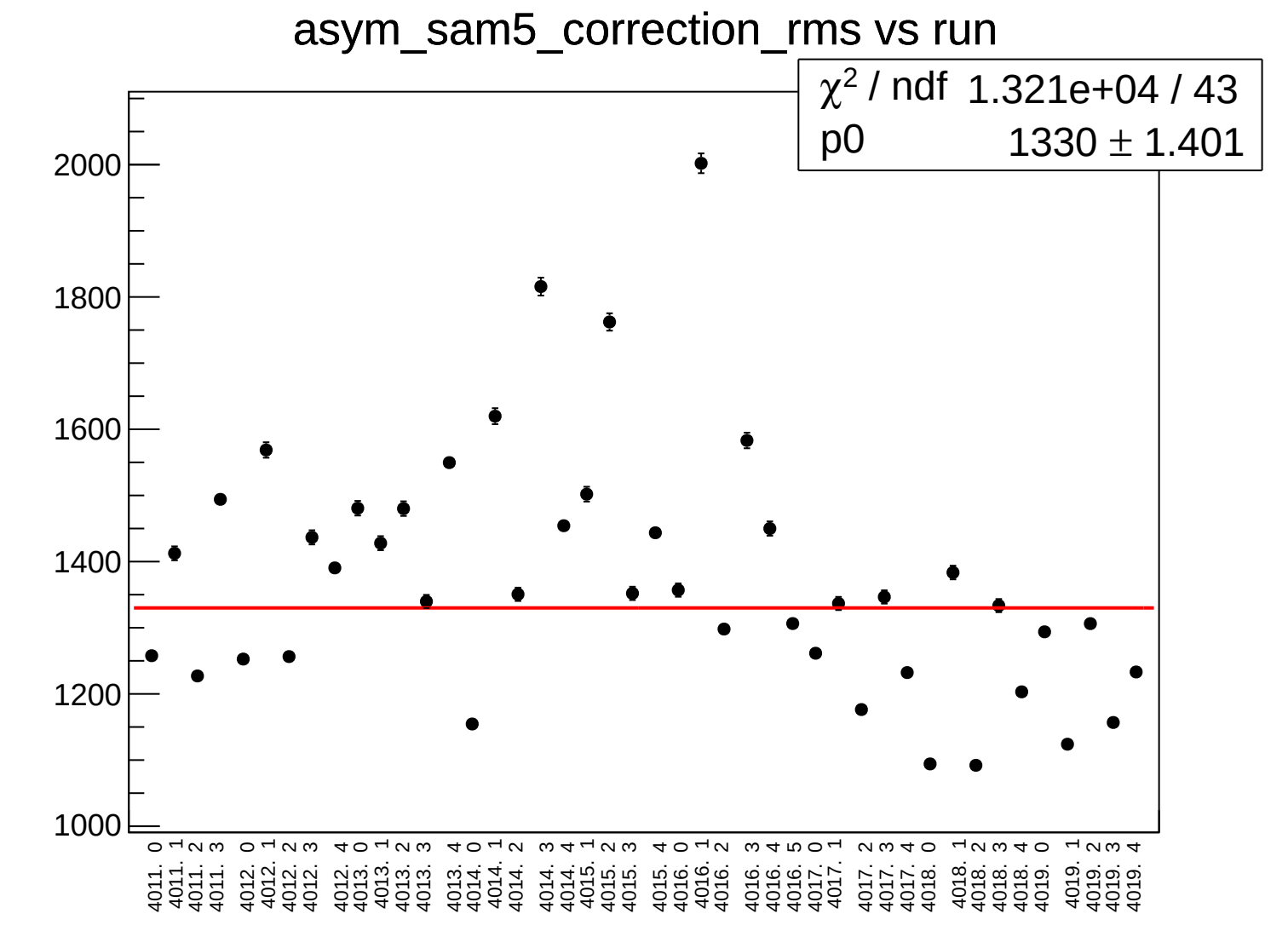

pull1D
Entries 44
Mean 0.02323
Std Dev 1.056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

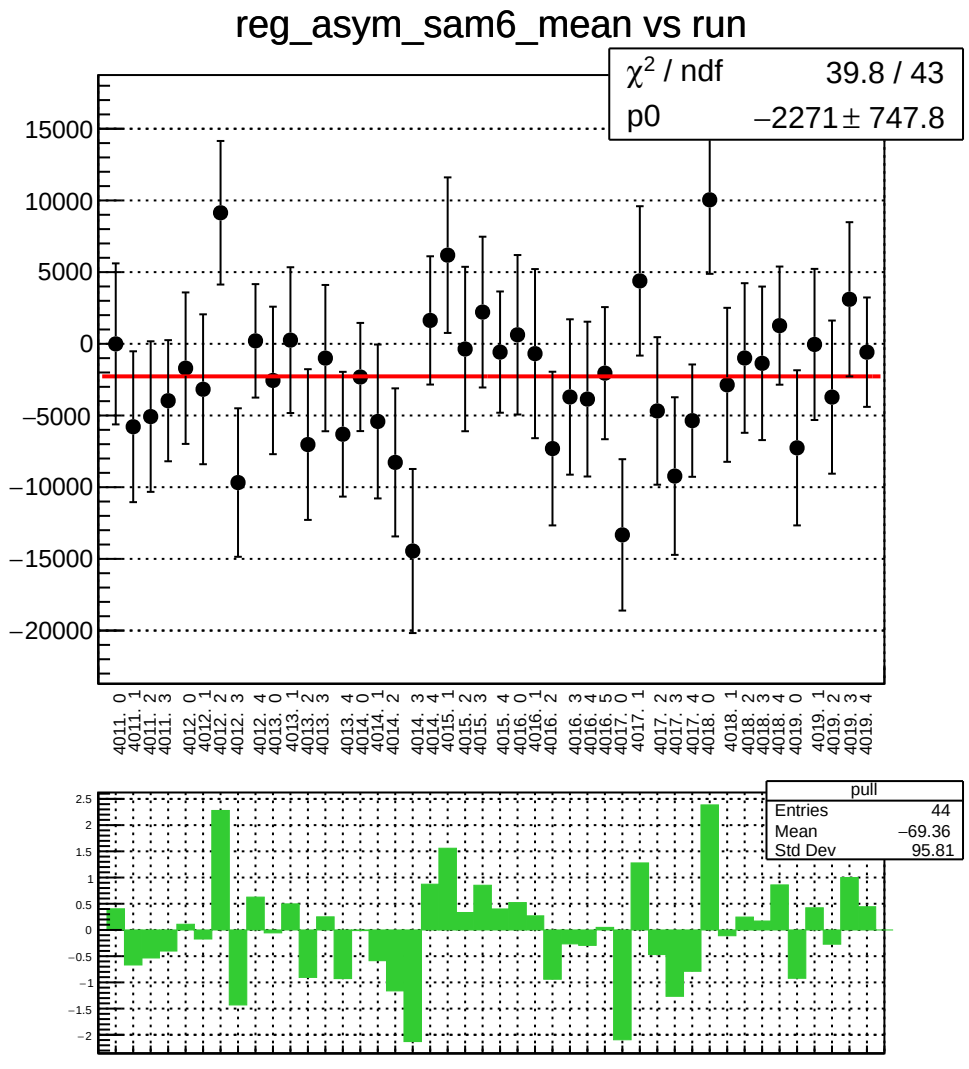

asym_sam4_correction_rms vs run
χ² / ndf 2167 / 43
p0 5327 ± 5.579
6000
5800
5600
5400
5200
5000
4800
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

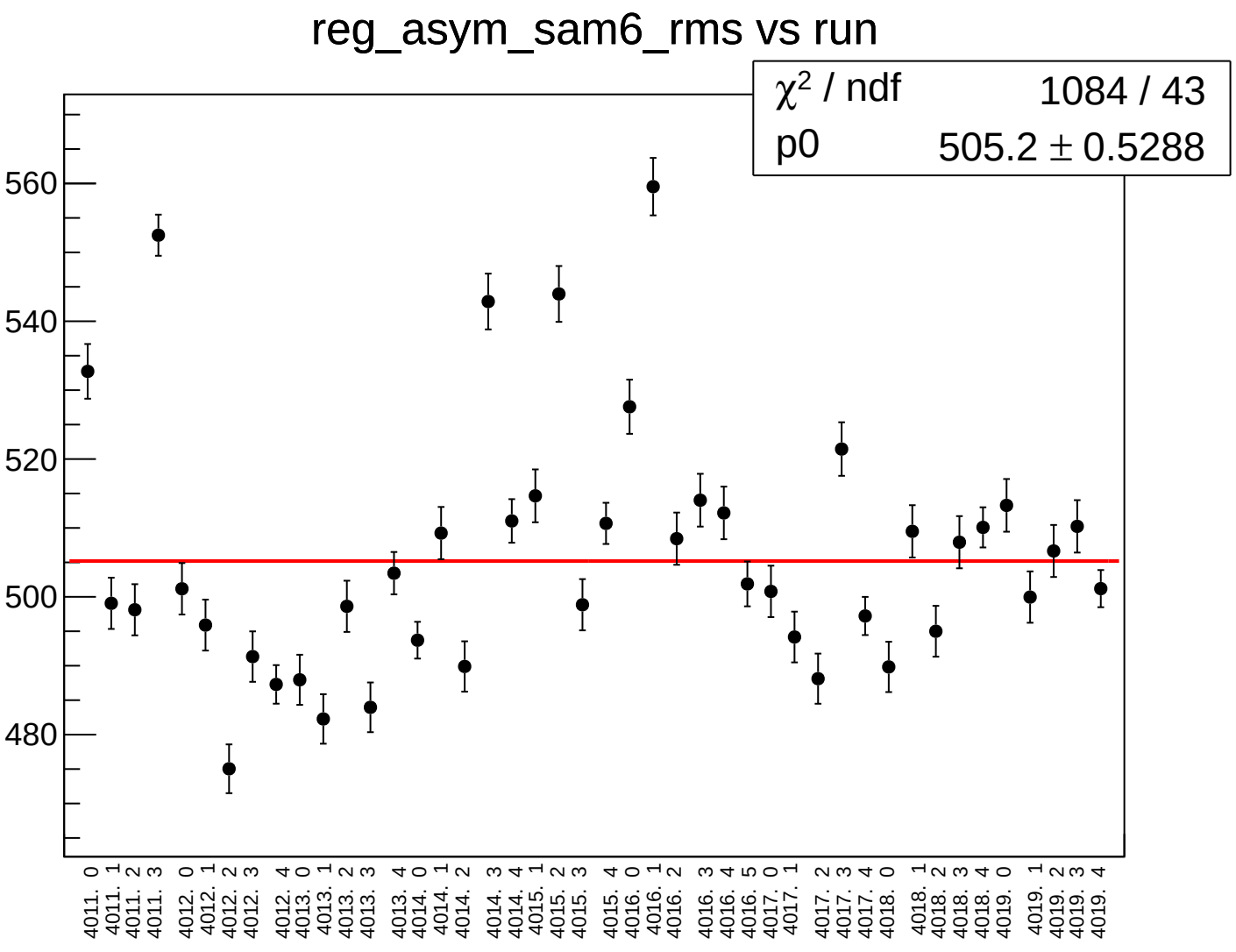

reg_asym_sam5_mean vs run
χ² / ndf 46.24 / 43
p0 −847.6 ± 470.9
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 1.423e+04
Std Dev 1.421e+04
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.0002343
Std Dev 1.025
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

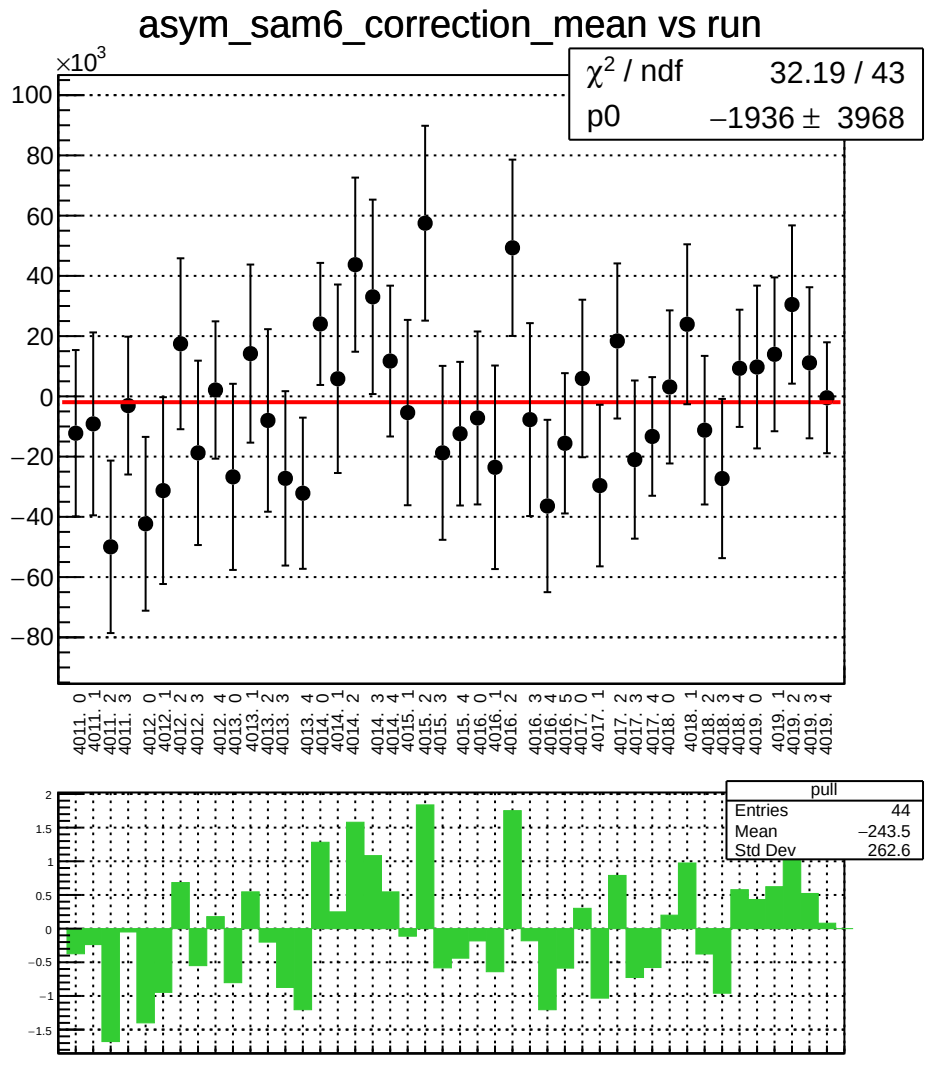

reg_asym_sam5_rms vs run
χ² / ndf 1437 / 43
p0 318.1 ± 0.333
370
360
350
340
330
320
310
300
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

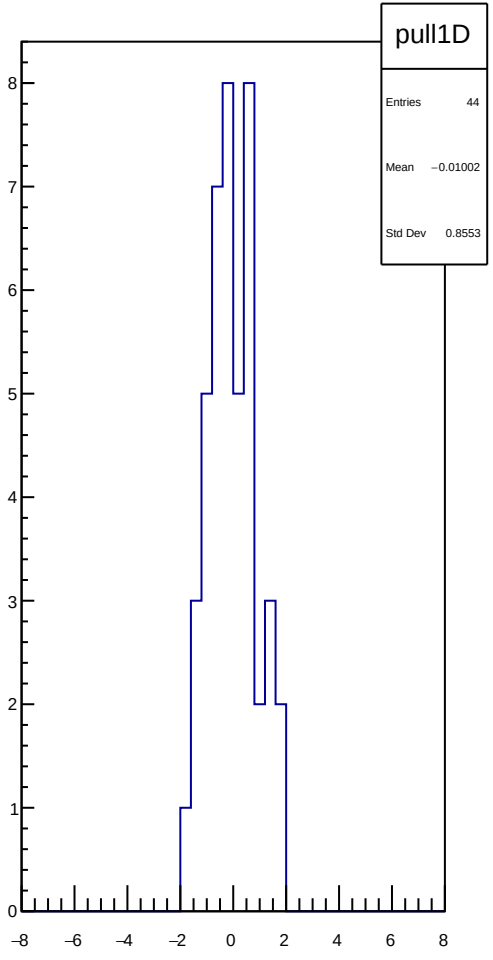

asym_sam5_correction_mean vs run
χ² / ndf 55.68 / 43
p0 −1417 ± 1982
60000
40000
20000
0
−20000
−40000
−60000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 170.5
Std Dev 148.3
3
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.02002
Std Dev 1.125
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

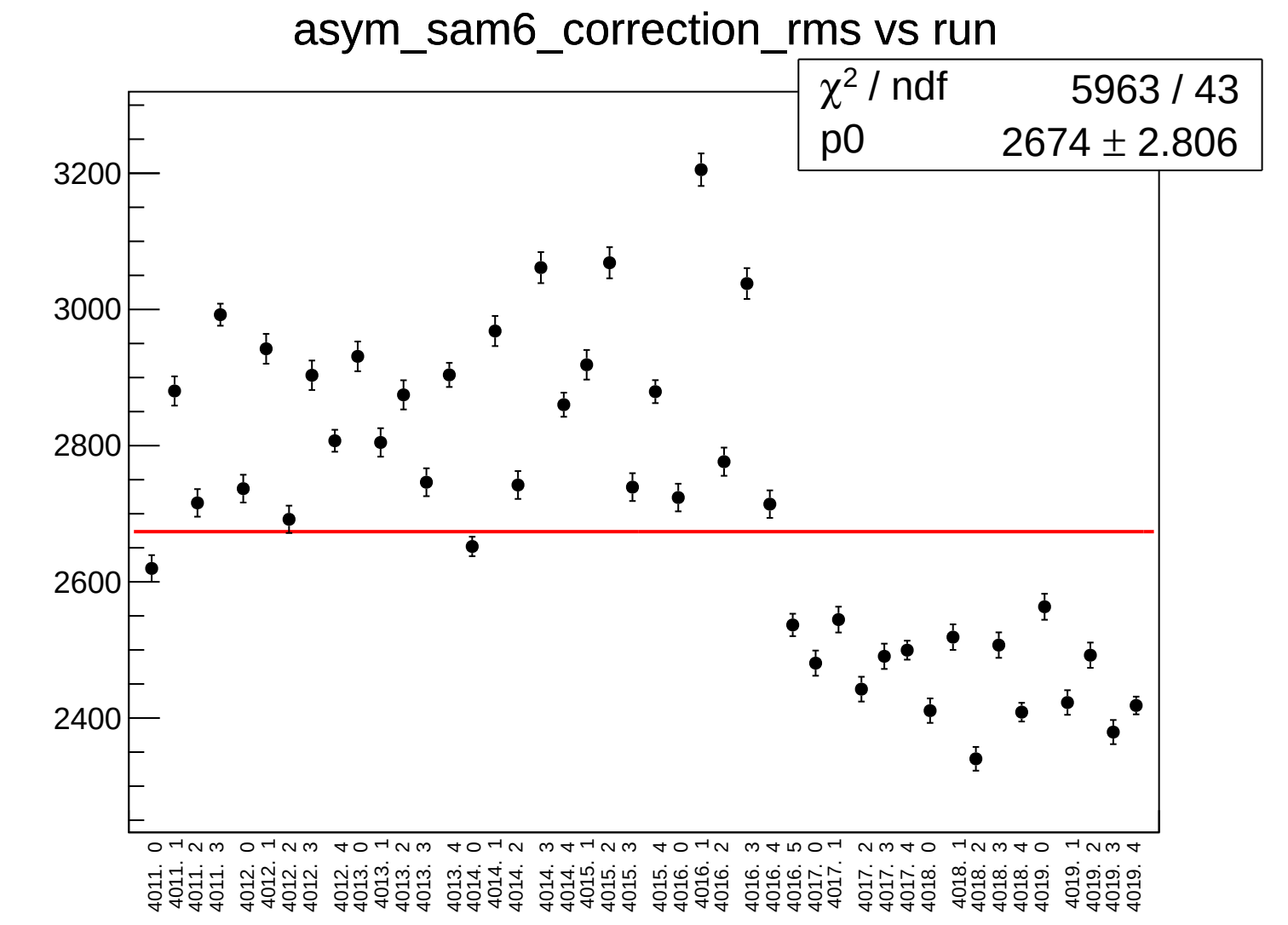

asym_sam5_correction_rms vs run
χ² / ndf 1.321e+04 / 43
p0 1330 ± 1.401
2000
1800
1600
1400
1200
1000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

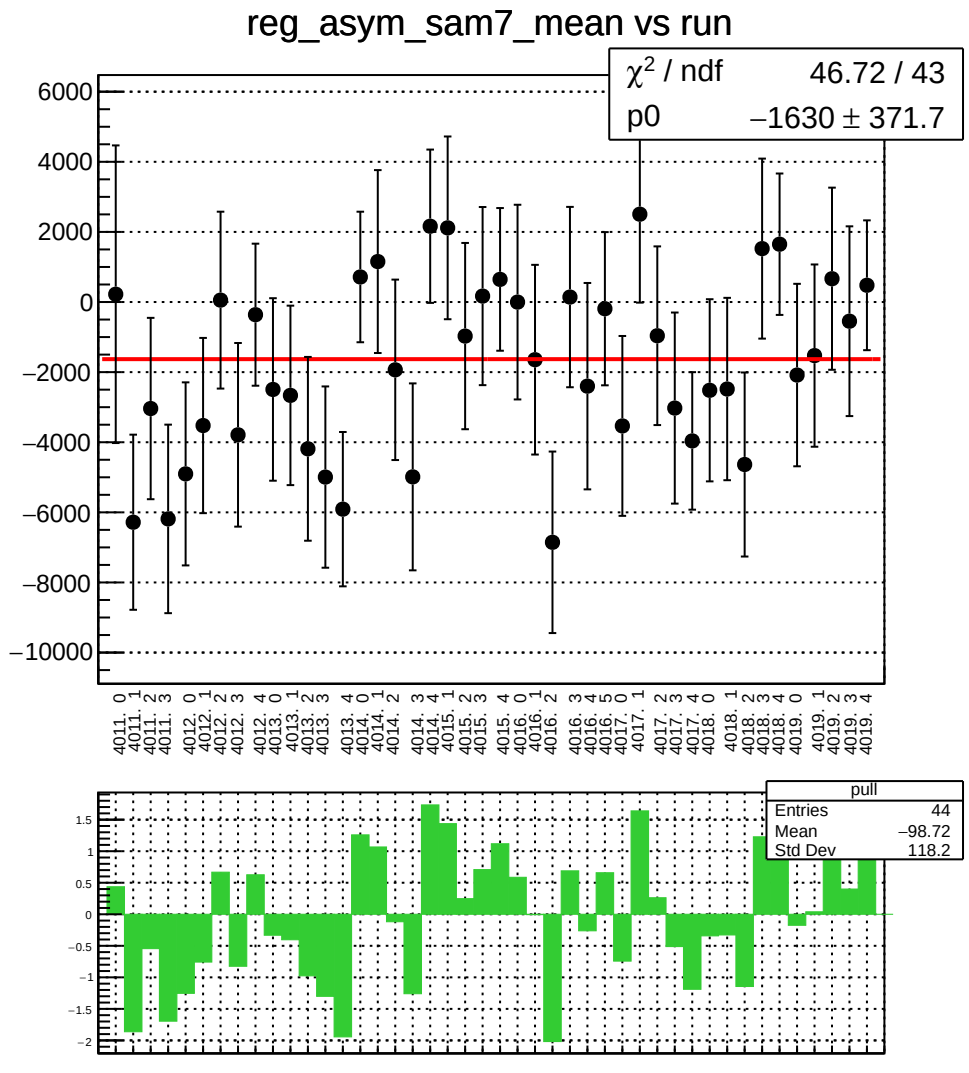

reg_asym_sam6_mean vs run
χ² / ndf 39.8 / 43
p0 −2271 ± 747.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −69.36
Std Dev 95.81
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean −0.01296
Std Dev 0.951
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

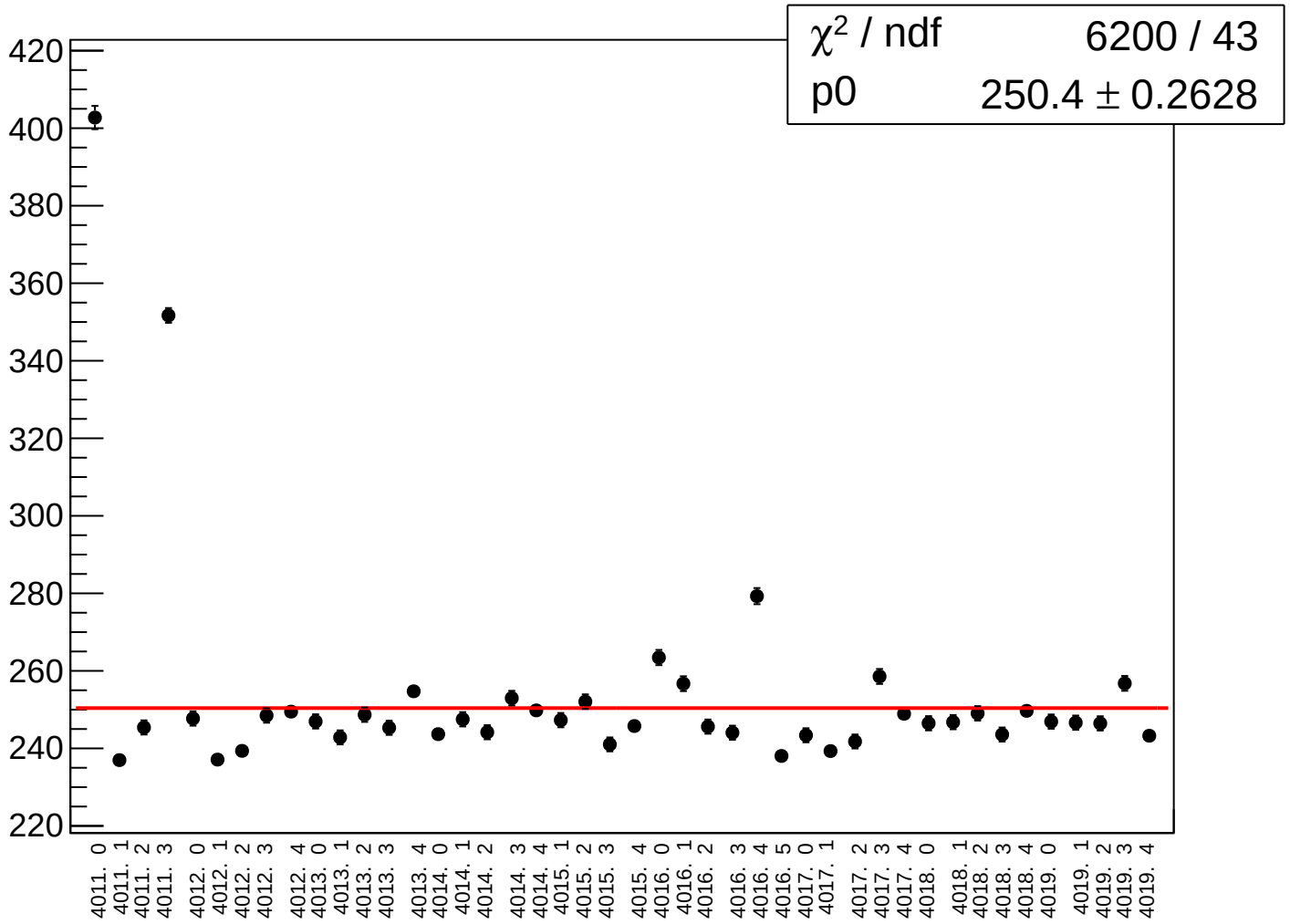

reg_asym_sam6_rms vs run
χ² / ndf 1084 / 43
p0 505.2 ± 0.5288
560
540
520
500
480
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

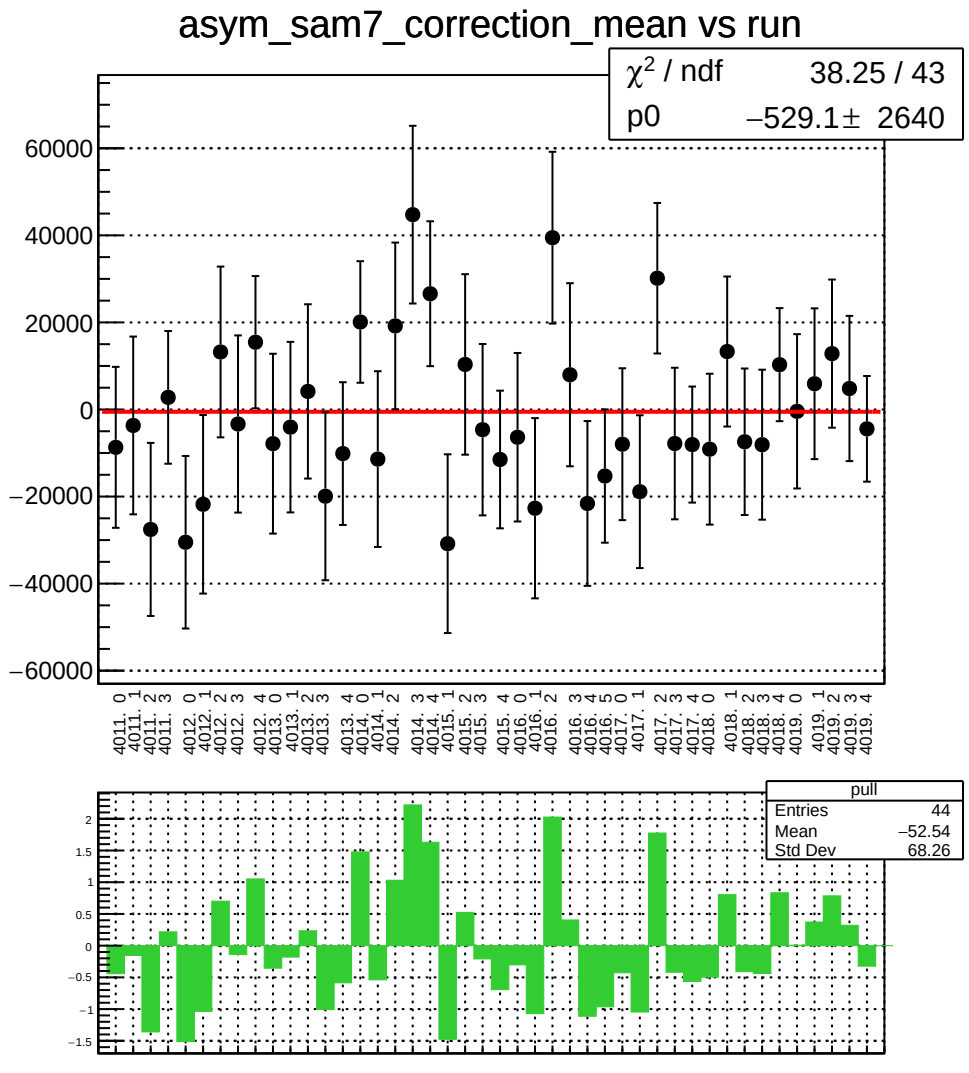

asym_sam6_correction_mean vs run
×10^3
χ² / ndf 32.19 / 43
p0 −1936 ± 3968
pull
Entries 44
Mean −243.5
Std Dev 262.6

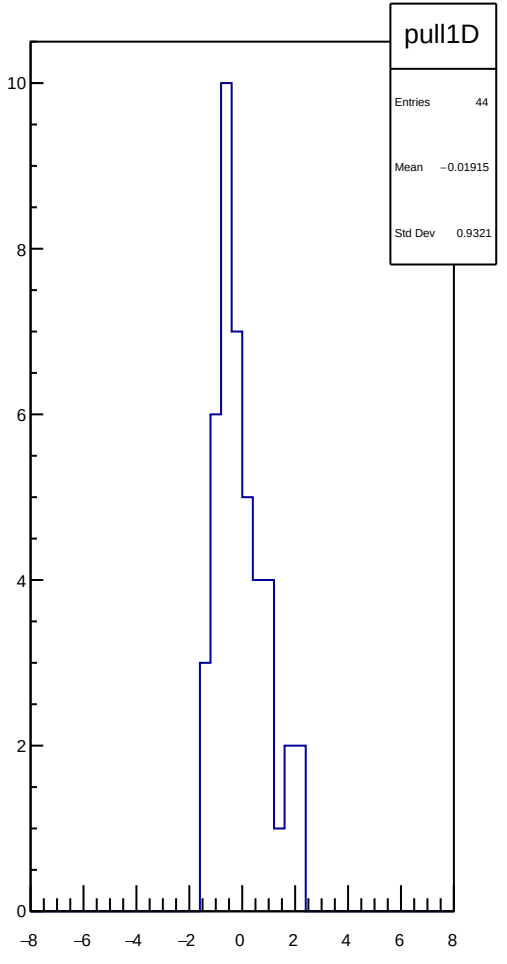

pull1D
Entries 44
Mean −0.01002
Std Dev 0.8553

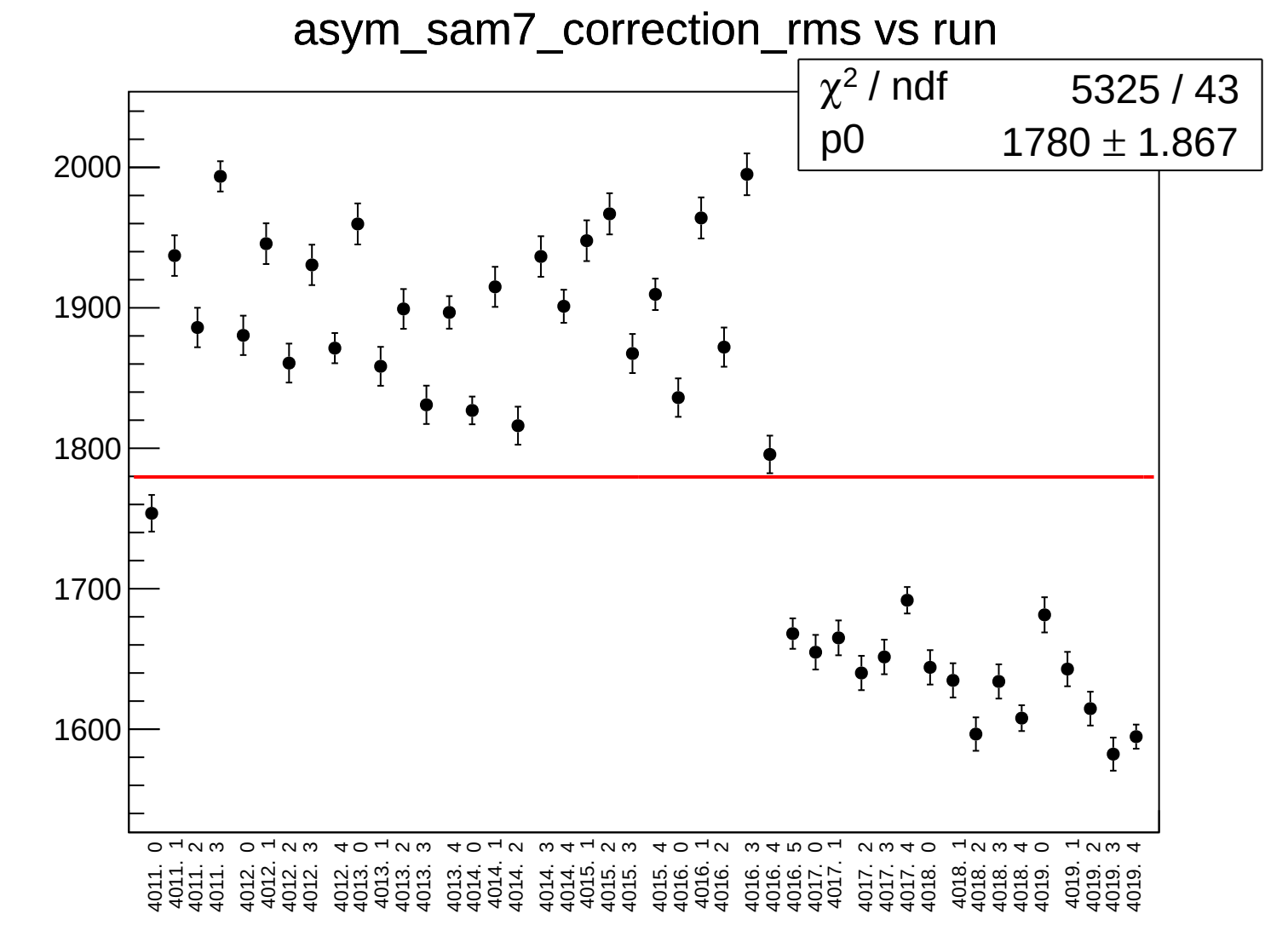

asym_sam6_correction_rms vs run
χ² / ndf 5963 / 43
p0 2674 ± 2.806
3200
3000
2800
2600
2400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

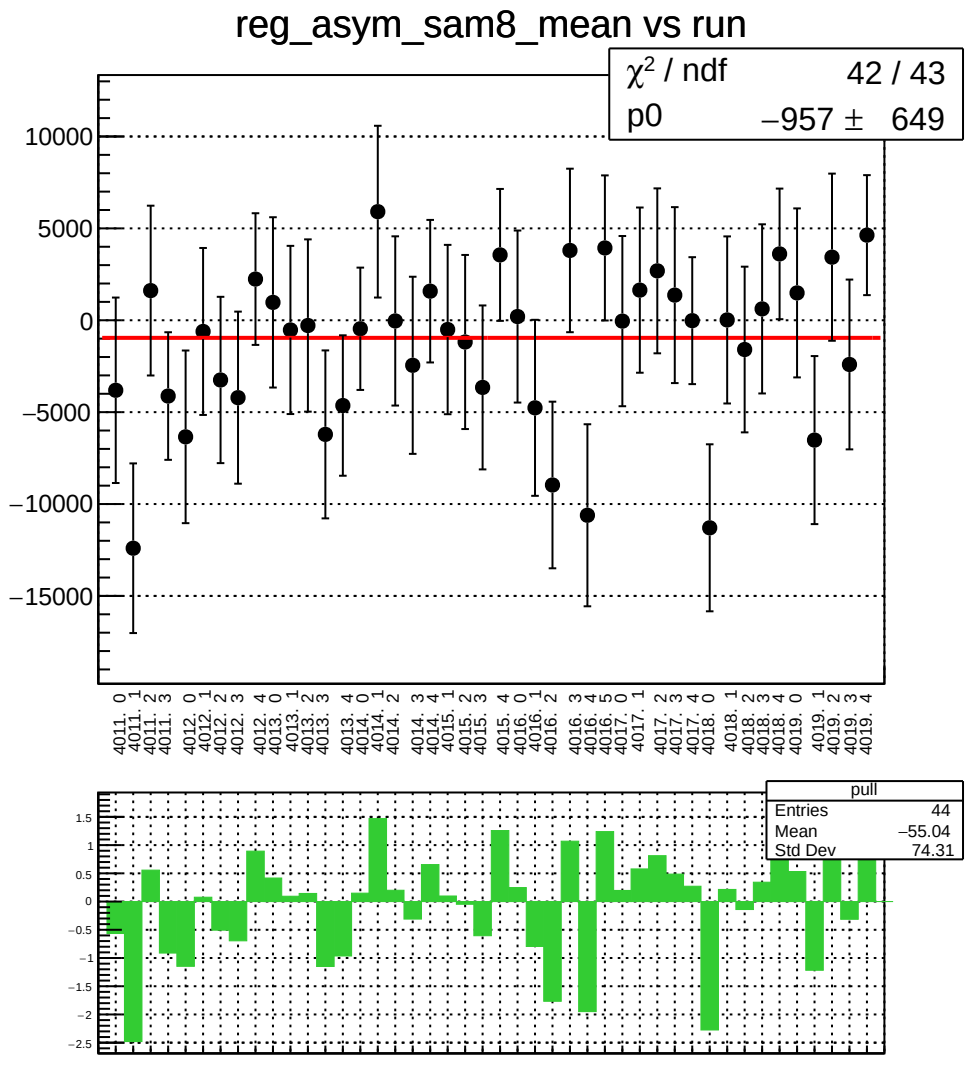

reg_asym_sam7_mean vs run
χ² / ndf 46.72 / 43
p0 −1630 ± 371.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −98.72
Std Dev 118.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean −0.03503
Std Dev 1.03
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

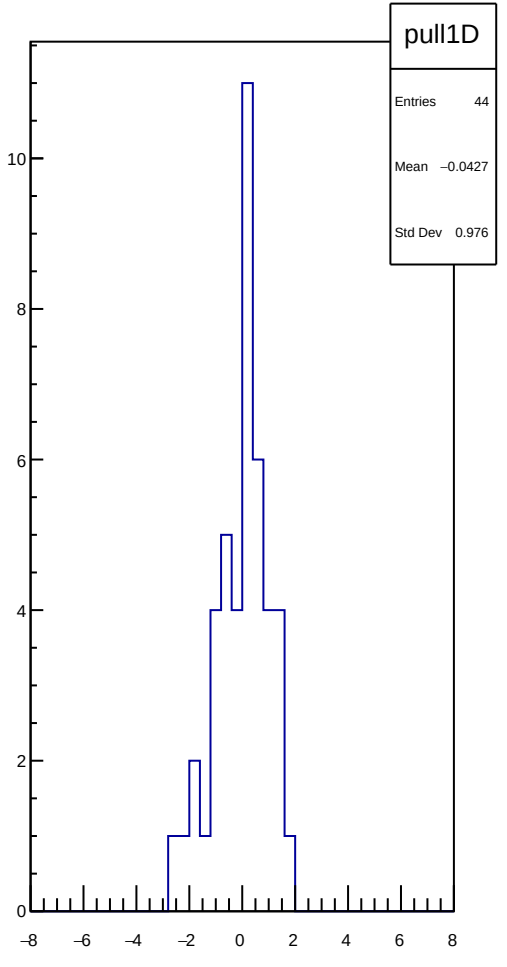

reg_asym_sam7_rms vs run
χ² / ndf 6200 / 43
p0 250.4 ± 0.2628
420
400
380
360
340
320
300
280
260
240
220
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

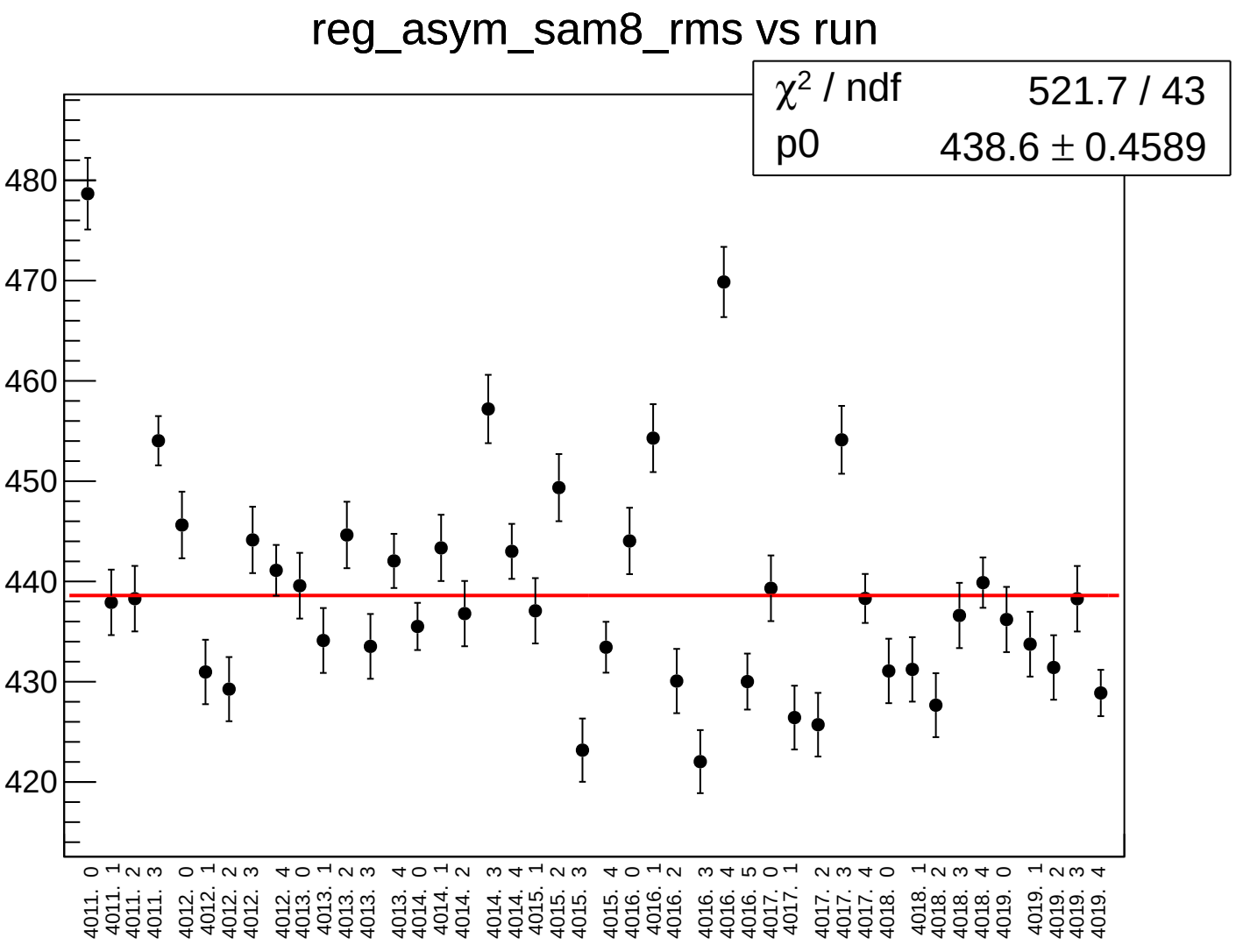

asym_sam7_correction_mean vs run
χ² / ndf 38.25 / 43
p0 −529.1± 2640
pull
Entries 44
Mean −52.54
Std Dev 68.26

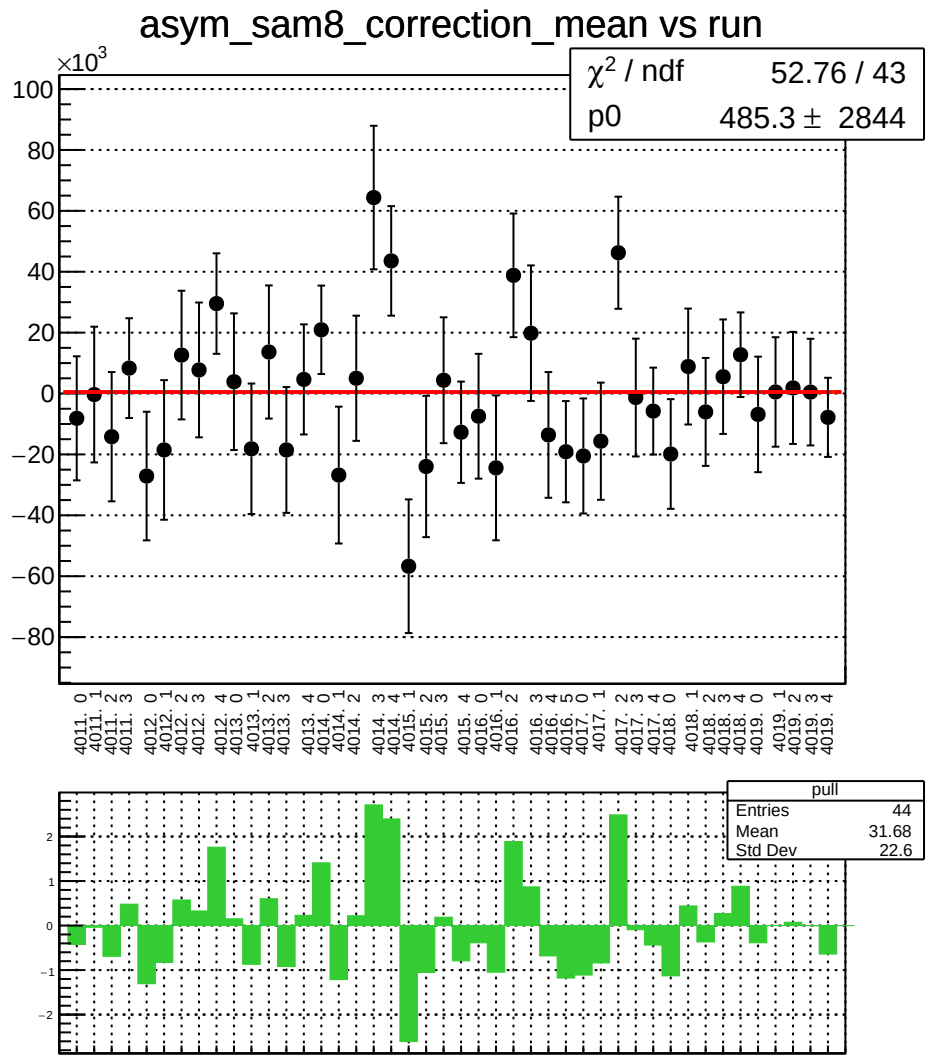

pull1D
Entries 44
Mean −0.01915
Std Dev 0.9321

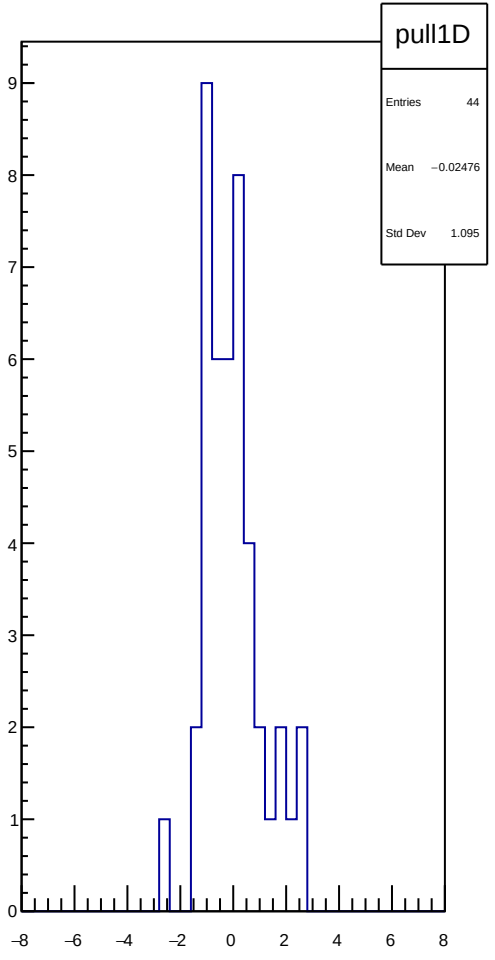

asym_sam7_correction_rms vs run
χ² / ndf 5325 / 43
p0 1780 ± 1.867
2000
1900
1800
1700
1600
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

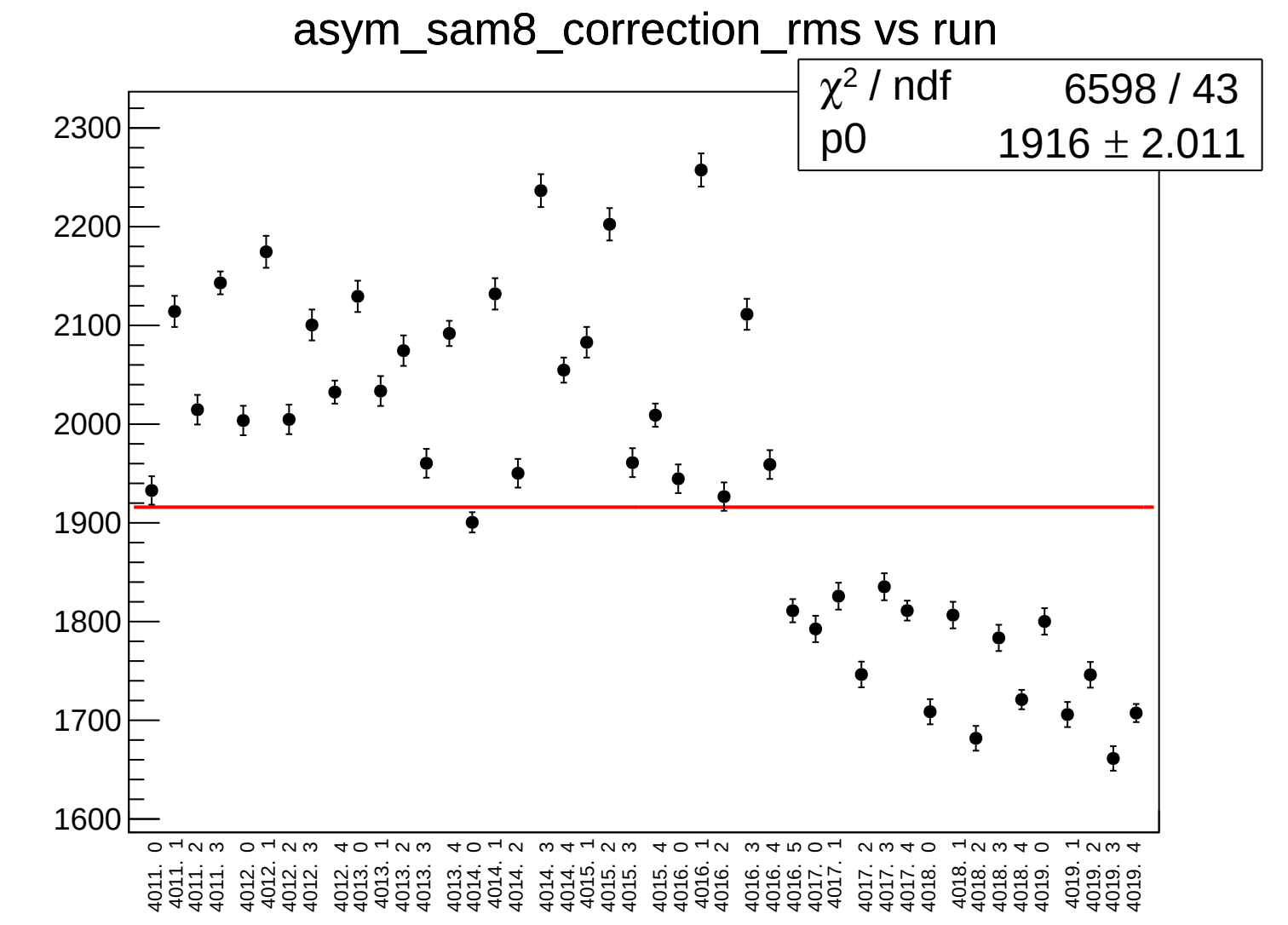

reg_asym_sam8_mean vs run
χ² / ndf 42 / 43
p0 −957 ± 649
10000
5000
0
−5000
−10000
−15000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −55.04
Std Dev 74.31
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

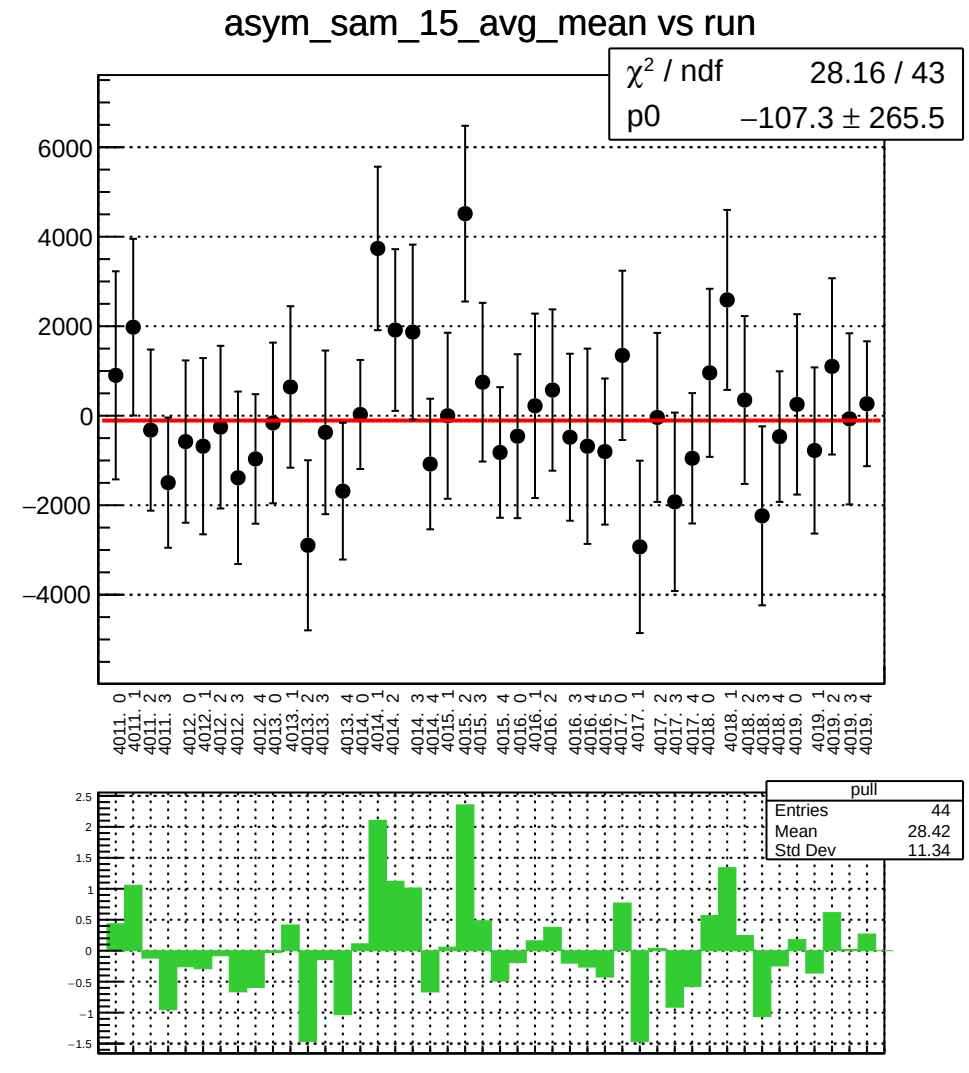

pull1D
Entries 44
Mean −0.0427
Std Dev 0.976
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

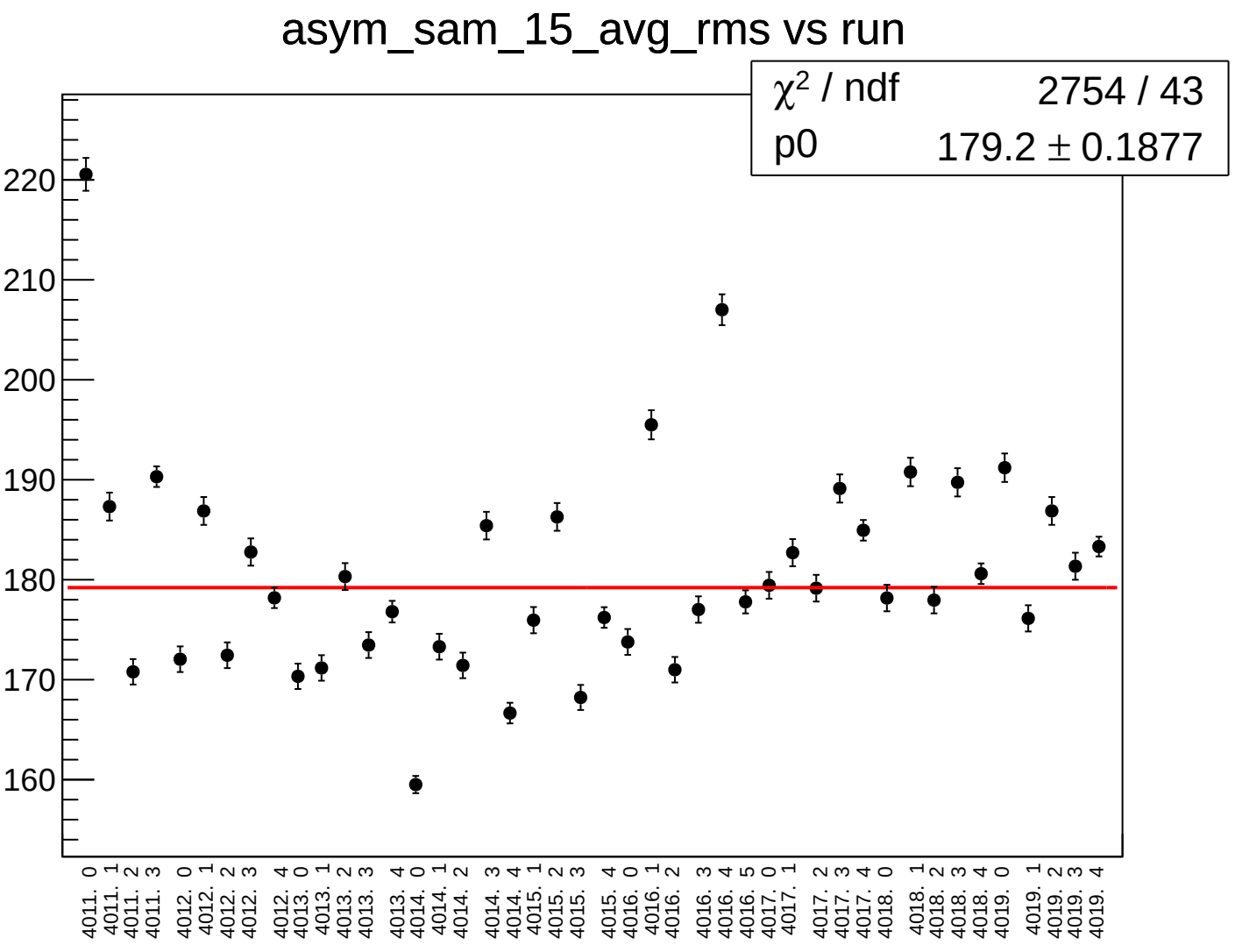

reg_asym_sam8_rms vs run
χ² / ndf 521.7 / 43
p0 438.6 ± 0.4589
480
470
460
450
440
430
420
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

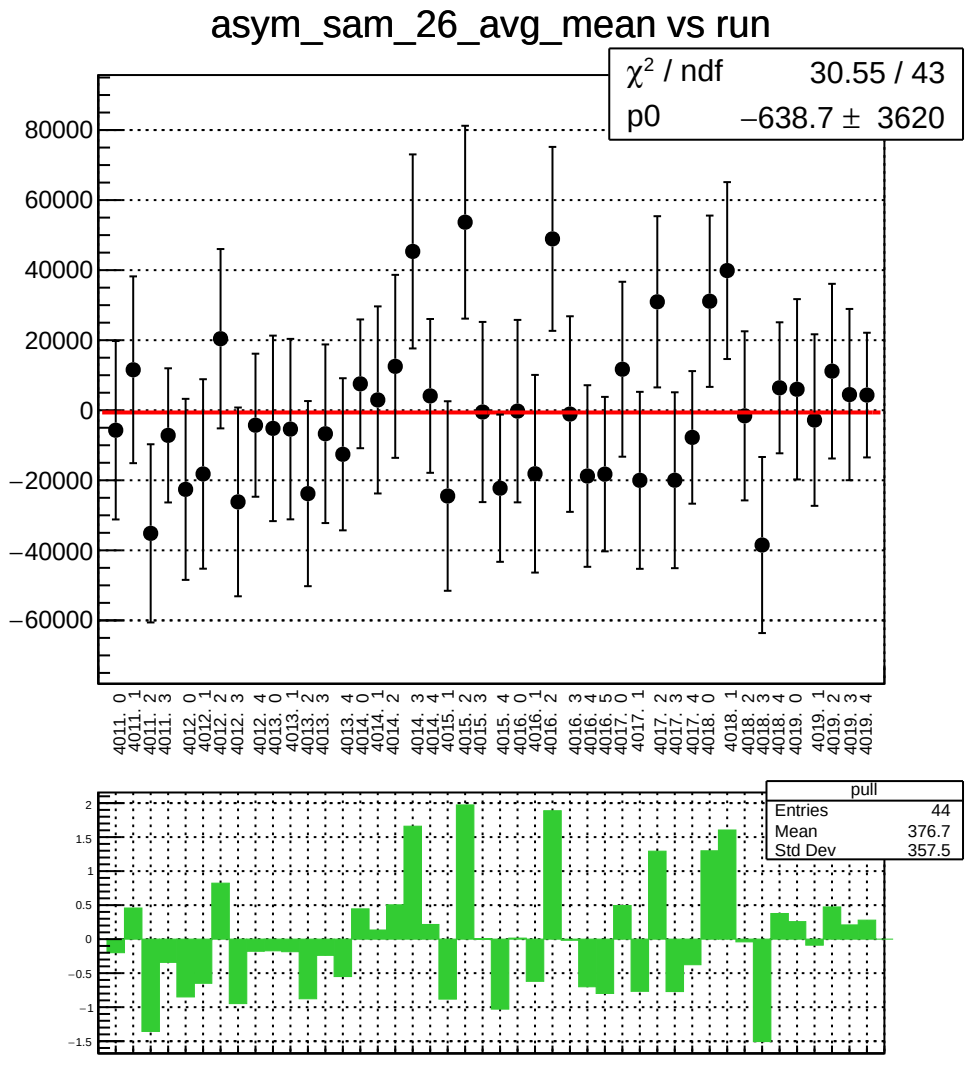

asym_sam8_correction_mean vs run
×10^3
χ² / ndf 52.76 / 43
p0 485.3 ± 2844
100
80
60
40
20
0
−20
−40
−60
−80
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 31.68
Std Dev 22.6
2
1
0
−1
−2

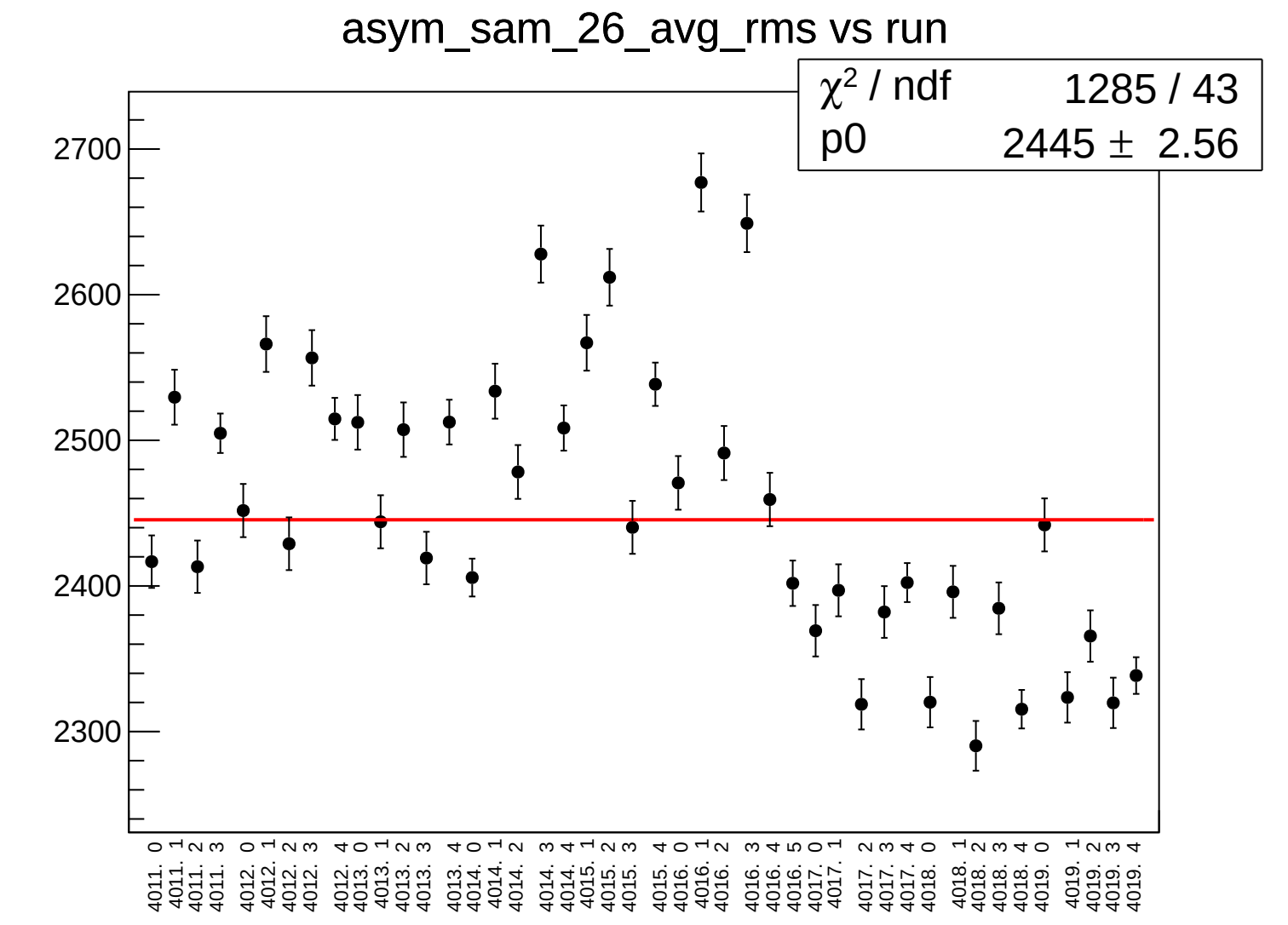

pull1D
Entries 44
Mean −0.02476
Std Dev 1.095
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

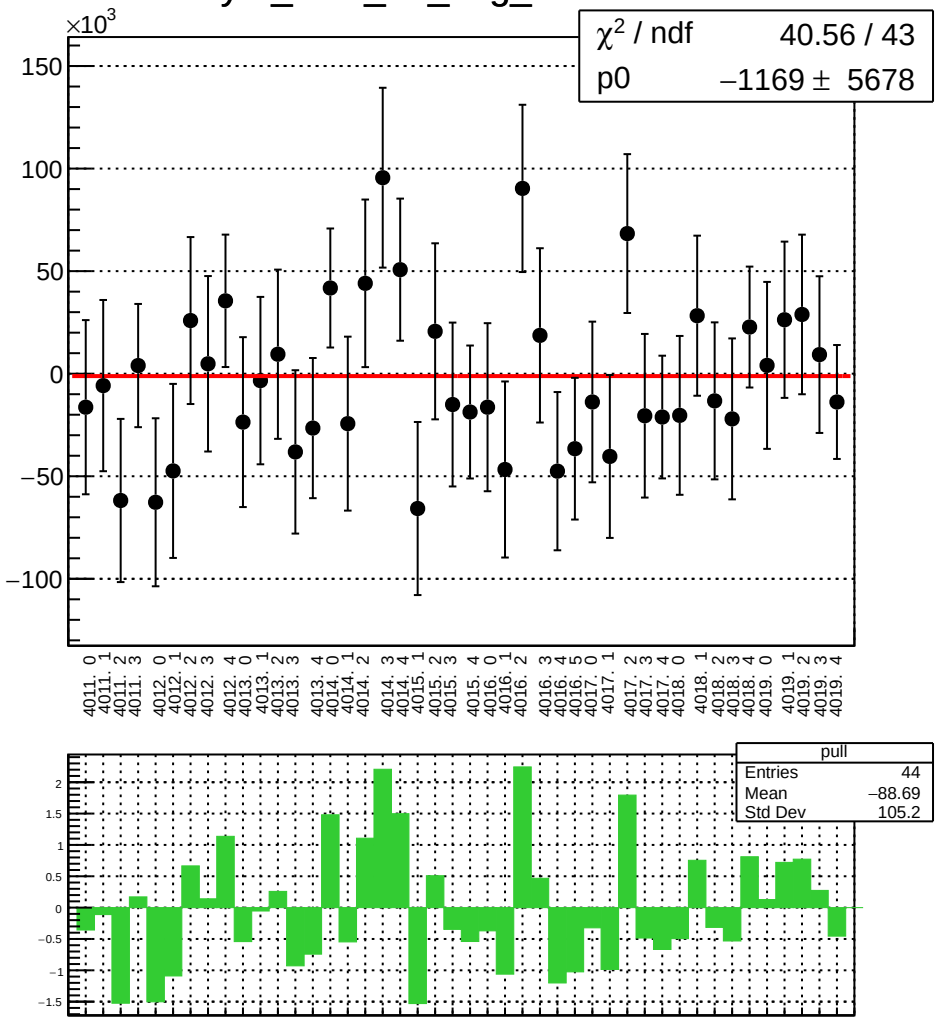

asym_sam8_correction_rms vs run
χ² / ndf 6598 / 43
p0 1916 ± 2.011
2300
2200
2100
2000
1900
1800
1700
1600
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

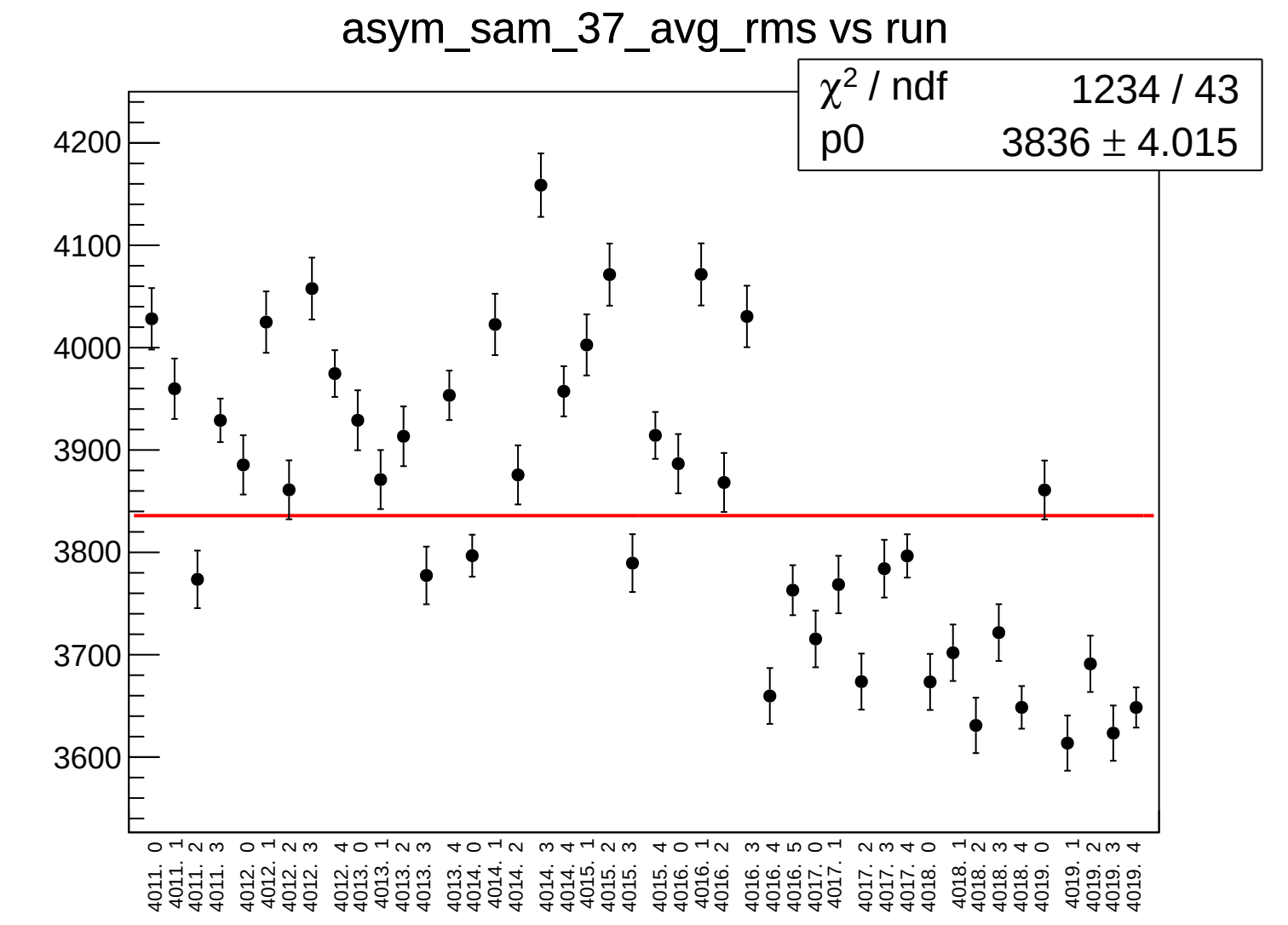

asym_sam_15_avg_mean vs run
χ² / ndf 28.16 / 43
p0 −107.3 ± 265.5
6000
4000
2000
0
−2000
−4000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 28.42
Std Dev 11.34
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean 0.02787
Std Dev 0.7995
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

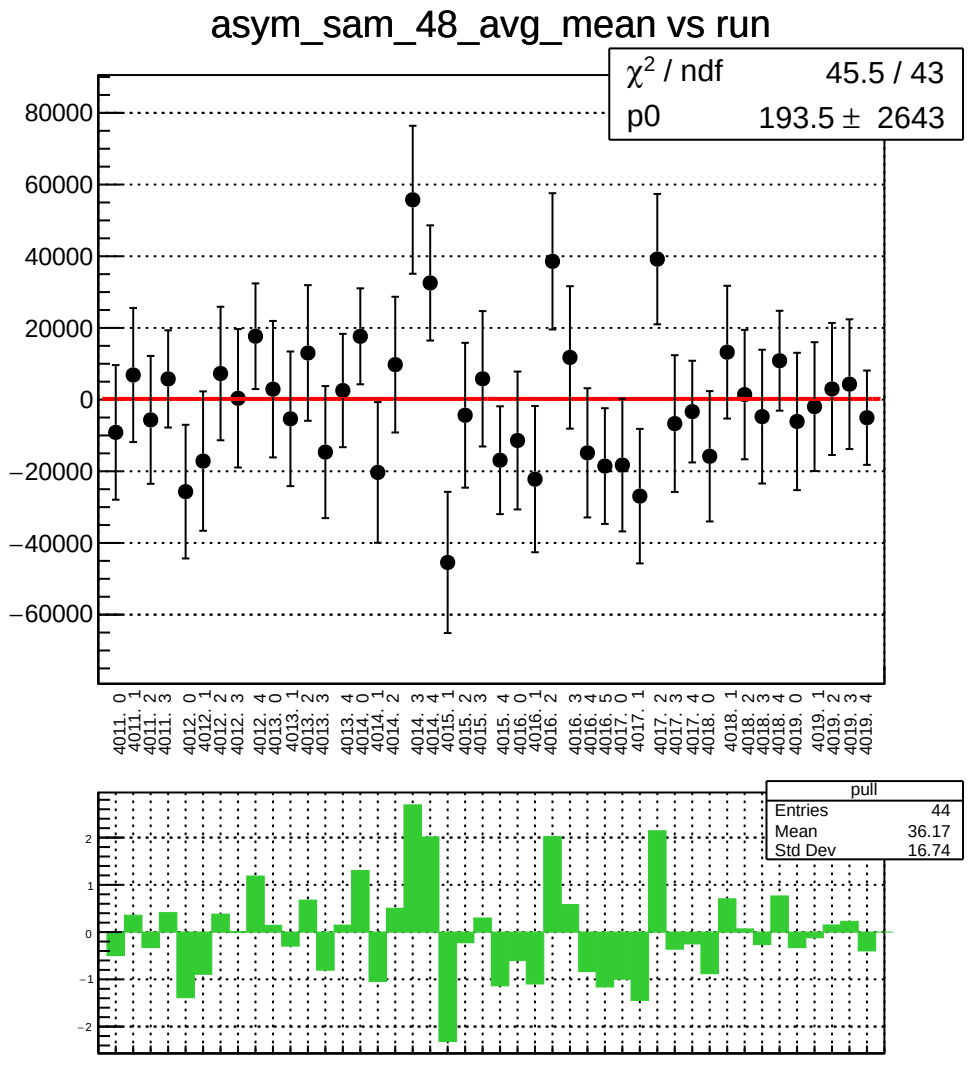

asym_sam_15_avg_rms vs run
χ² / ndf 2754 / 43
p0 179.2 ± 0.1877
220
210
200
190
180
170
160
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

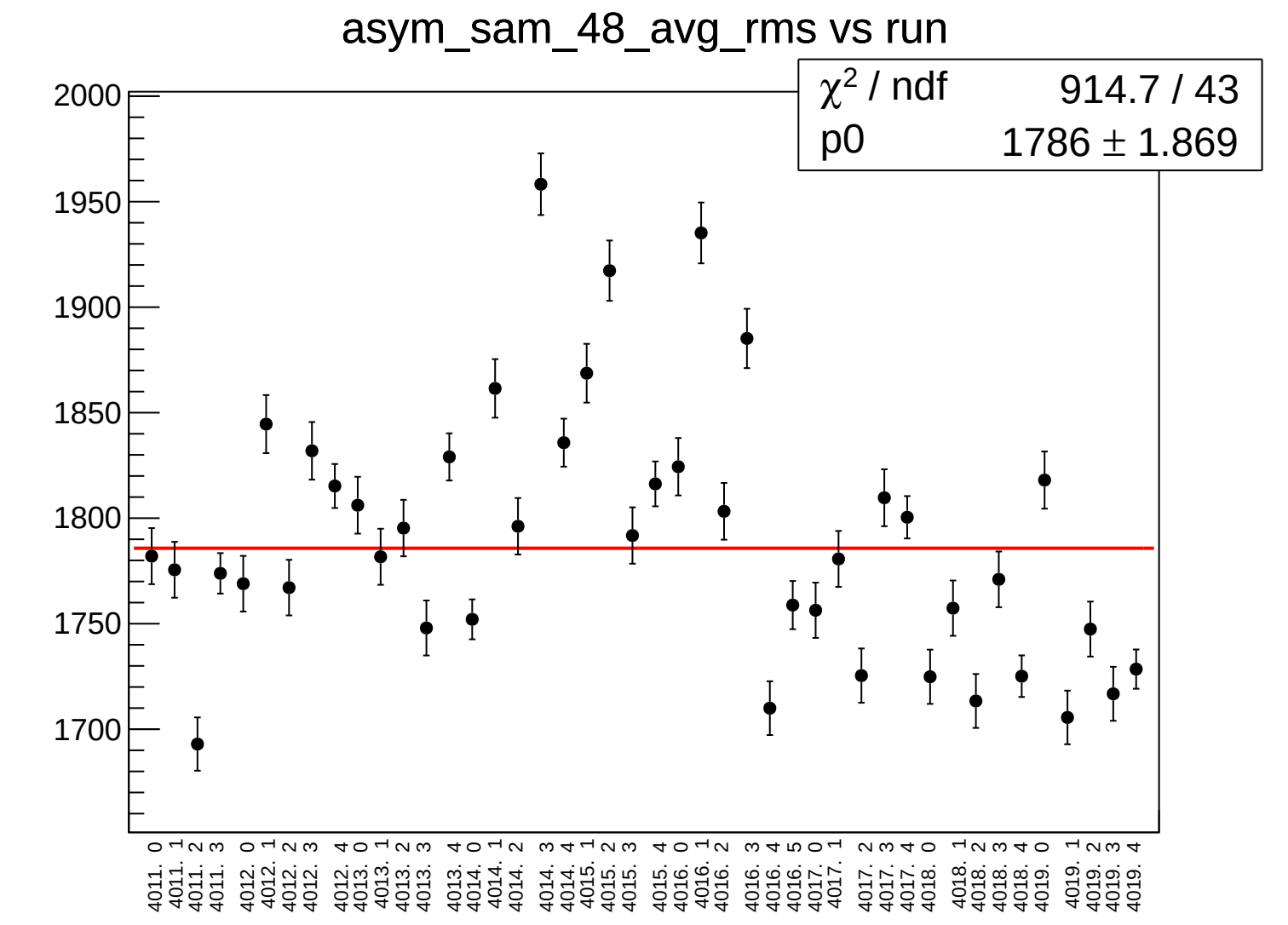

asym_sam_26_avg_mean vs run
χ² / ndf 30.55 / 43
p0 −638.7 ± 3620
80000
60000
40000
20000
0
−20000
−40000
−60000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 376.7
Std Dev 357.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean 0.006161
Std Dev 0.8332
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

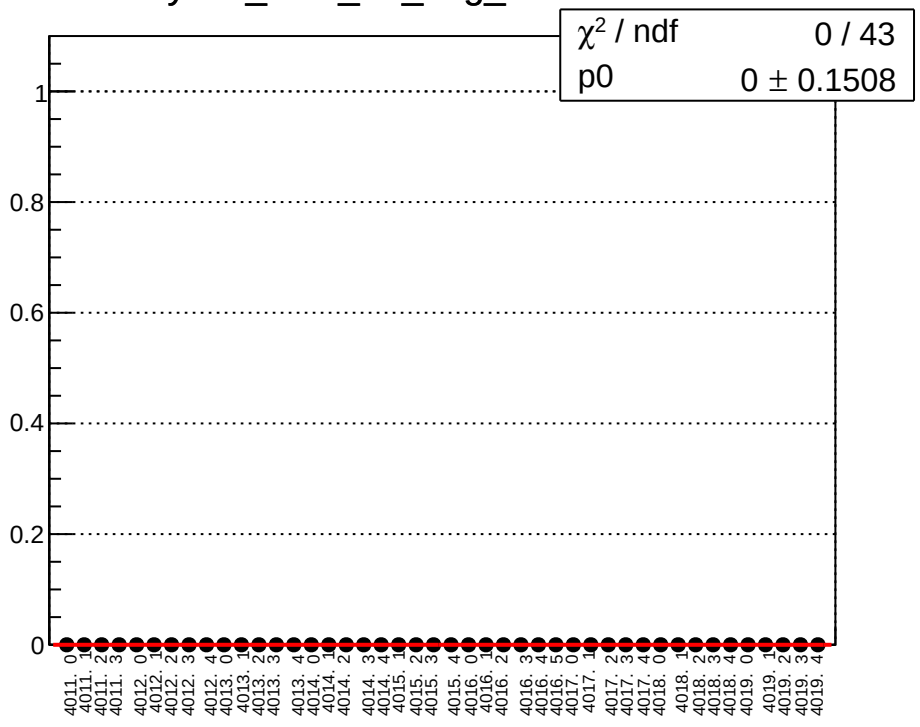

asym_sam_26_avg_rms vs run
χ² / ndf 1285 / 43
p0 2445 ± 2.56
2700
2600
2500
2400
2300
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

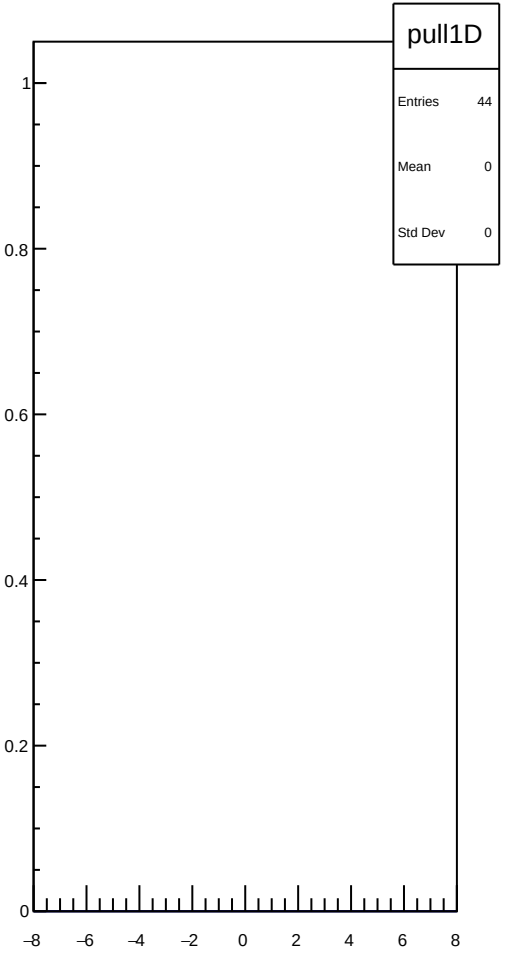

asym_sam_37_avg_mean vs run
×10^3
χ^2 / ndf 40.56 / 43
p0 −1169 ± 5678
150
100
50
0
−50
−100
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4016. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −88.69
Std Dev 105.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean −0.01336
Std Dev 0.96
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

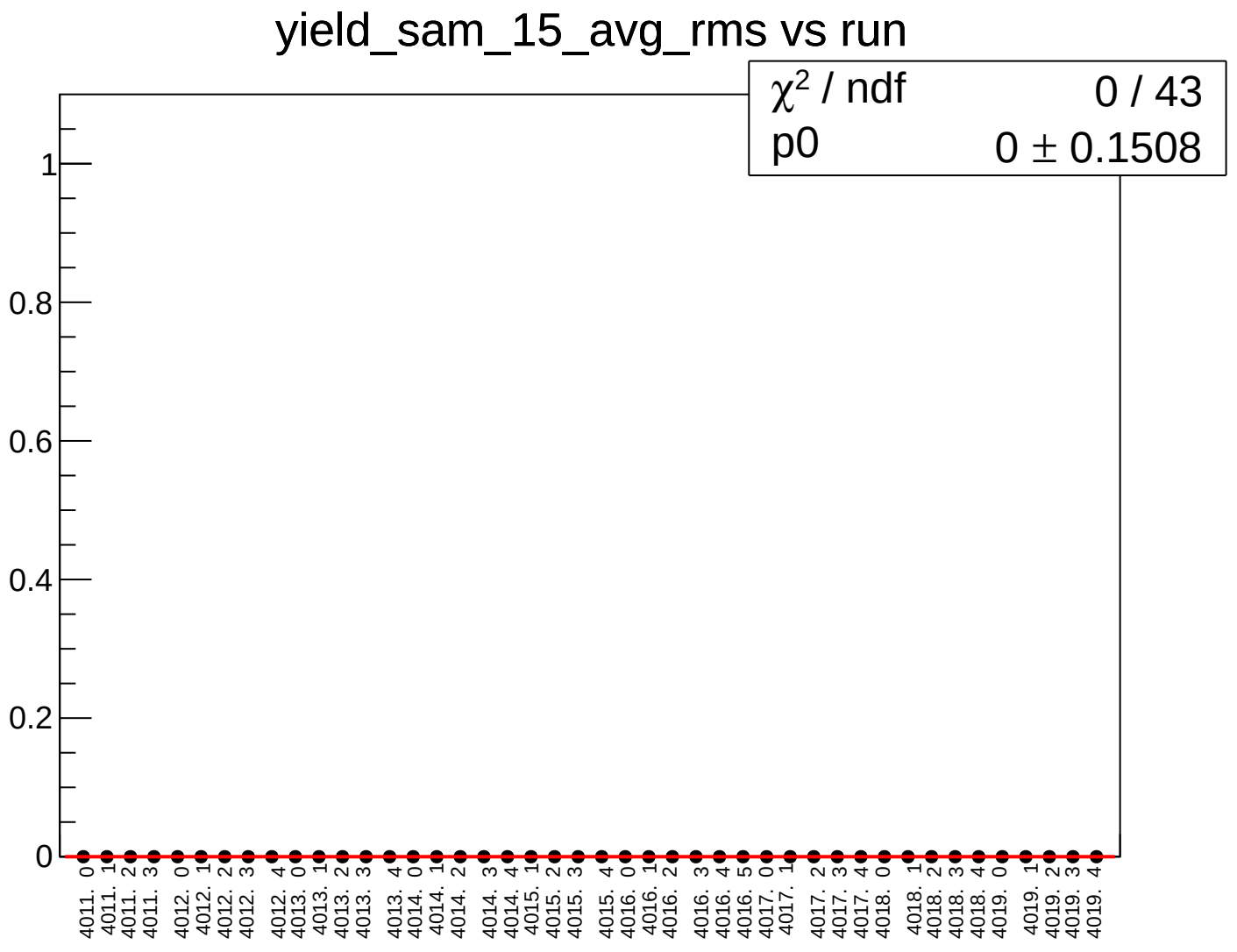

asym_sam_37_avg_rms vs run
χ^2 / ndf 1234 / 43
p0 3836 ± 4.015
4200
4100
4000
3900
3800
3700
3600
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

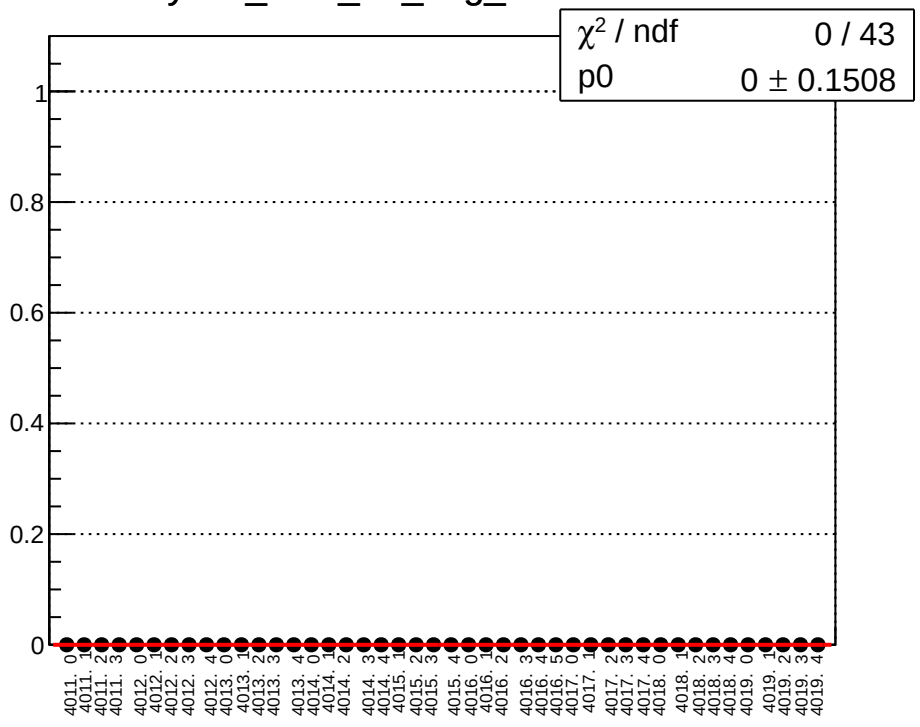

asym_sam_48_avg_mean vs run
χ² / ndf 45.5 / 43
p0 193.5 ± 2643
80000
60000
40000
20000
0
−20000
−40000
−60000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 36.17
Std Dev 16.74
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.02019
Std Dev 1.017
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

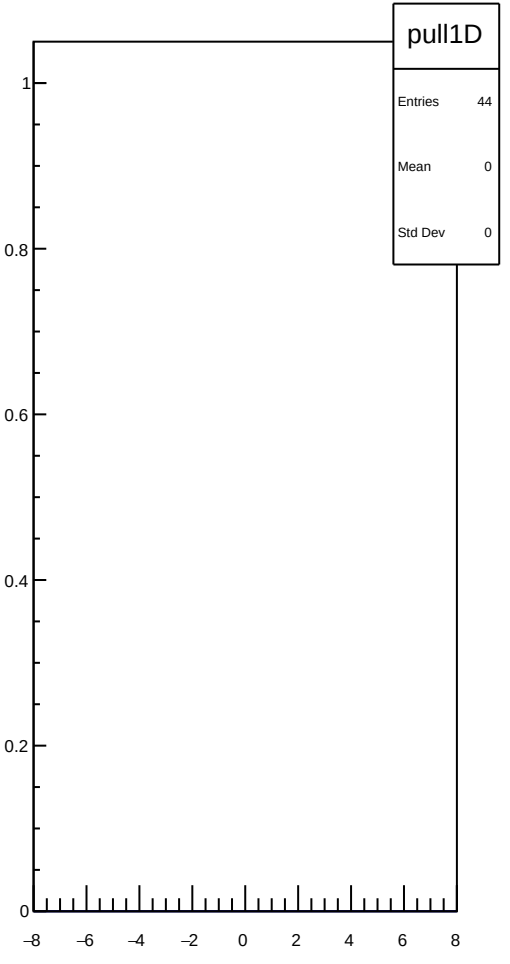

asym_sam_48_avg_rms vs run
χ^2 / ndf 914.7 / 43
p0 1786 ± 1.869
2000
1950
1900
1850
1800
1750
1700
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

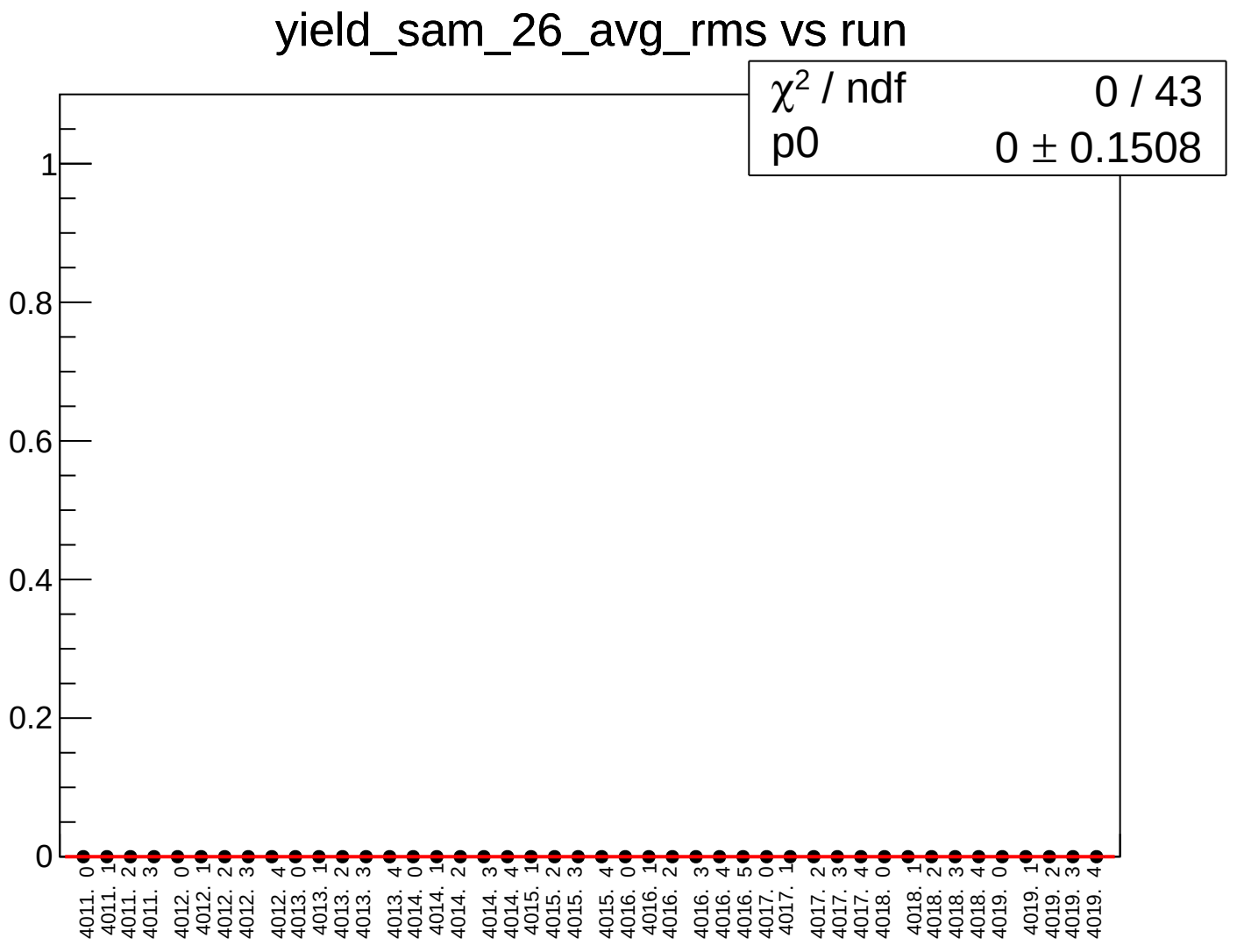

yield_sam_15_avg_mean vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

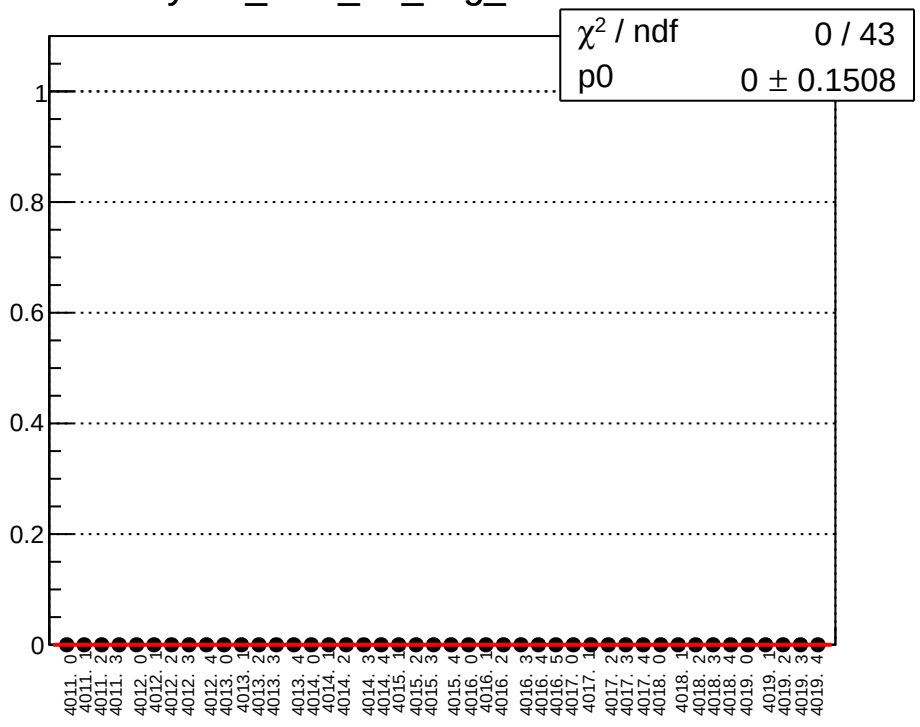

pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


yield_sam_15_avg_rms vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4


yield_sam_26_avg_mean vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4


pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


yield_sam_26_avg_rms vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4


yield_sam_37_avg_mean vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
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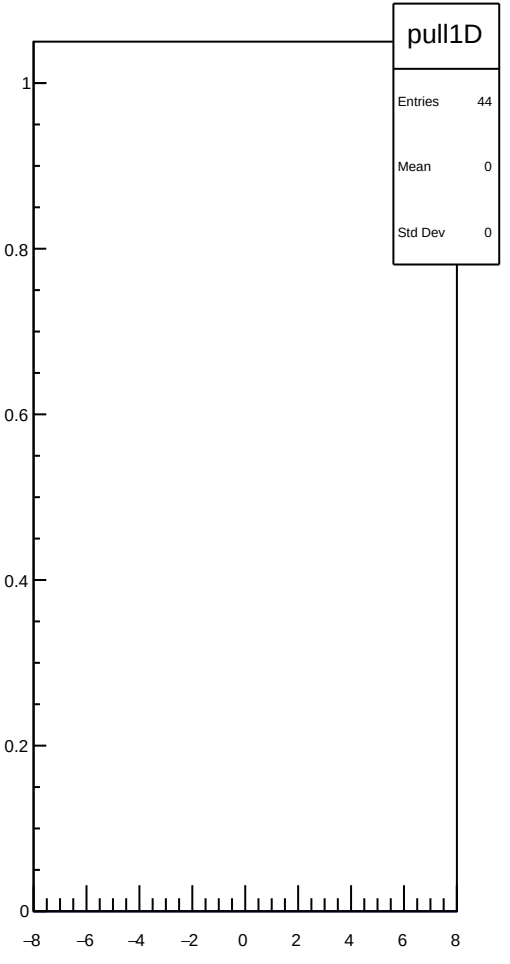
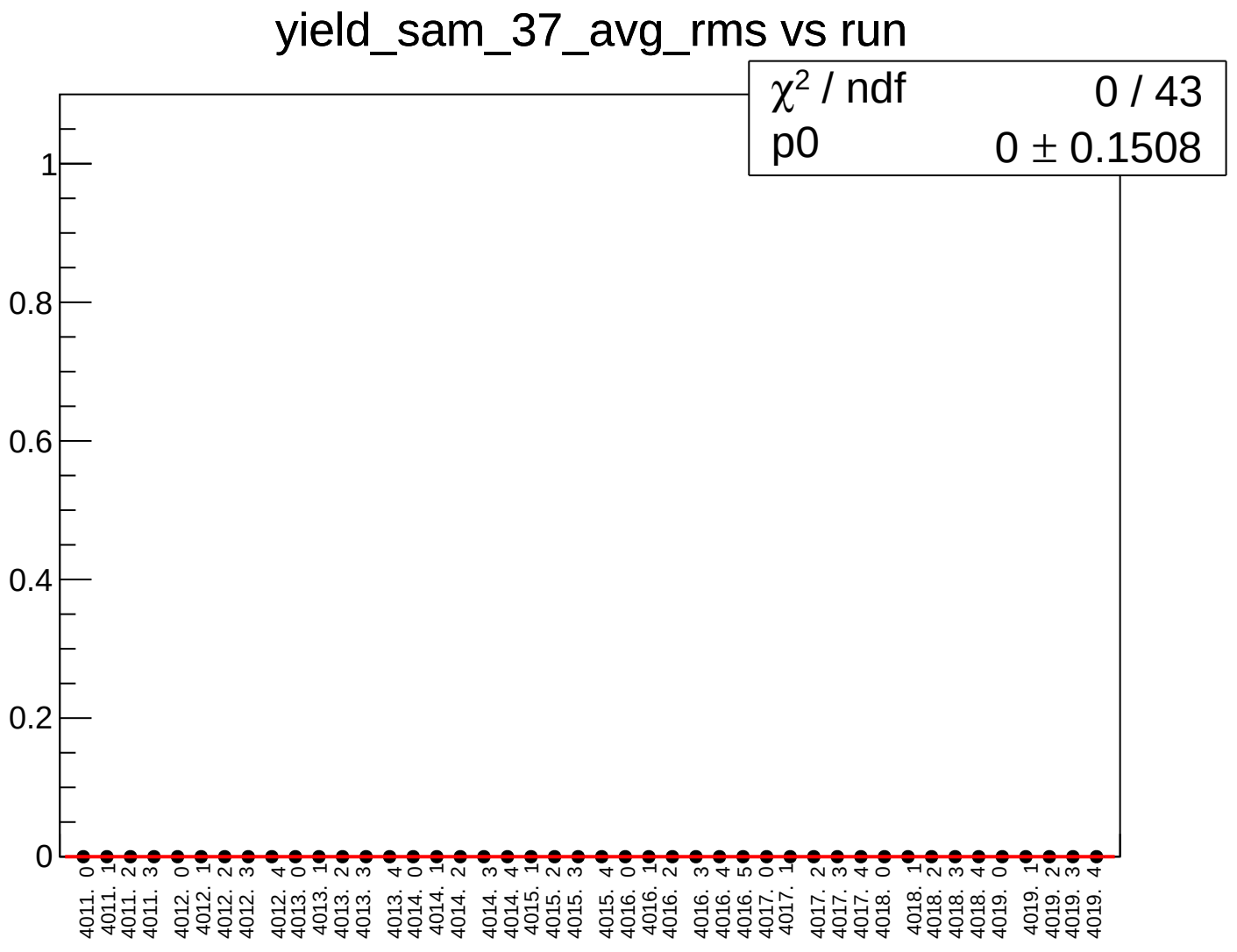
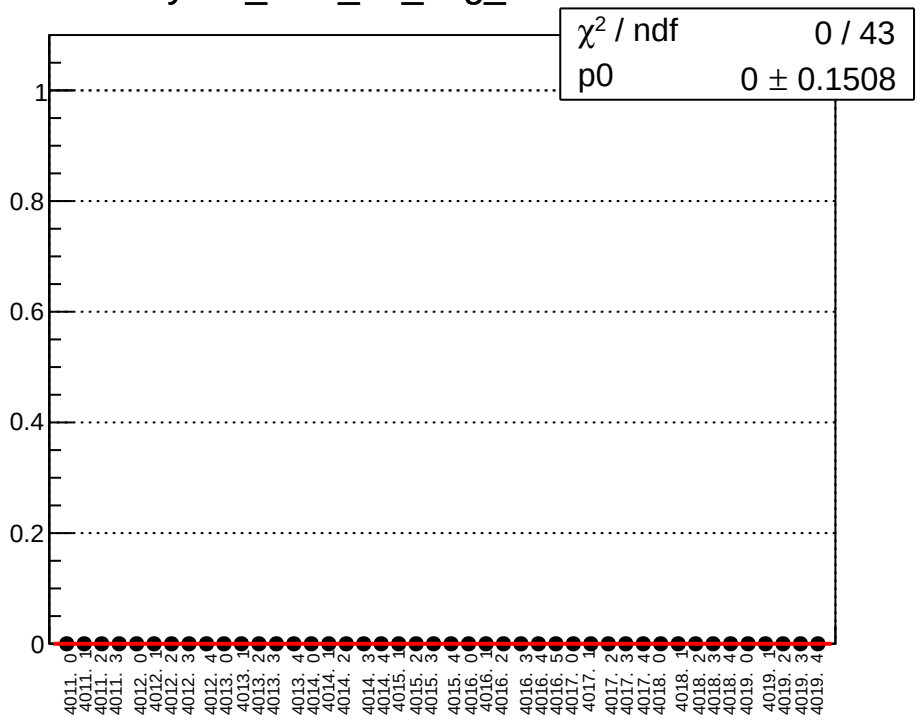
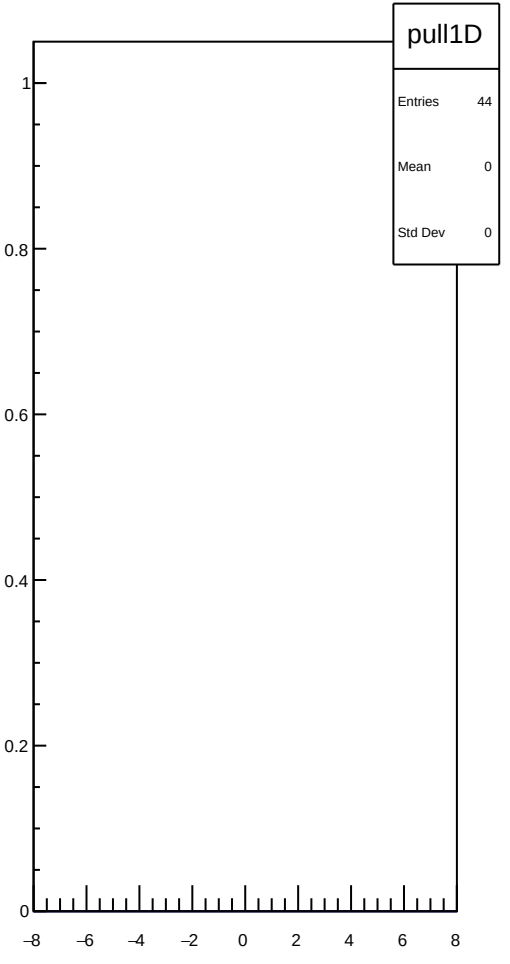
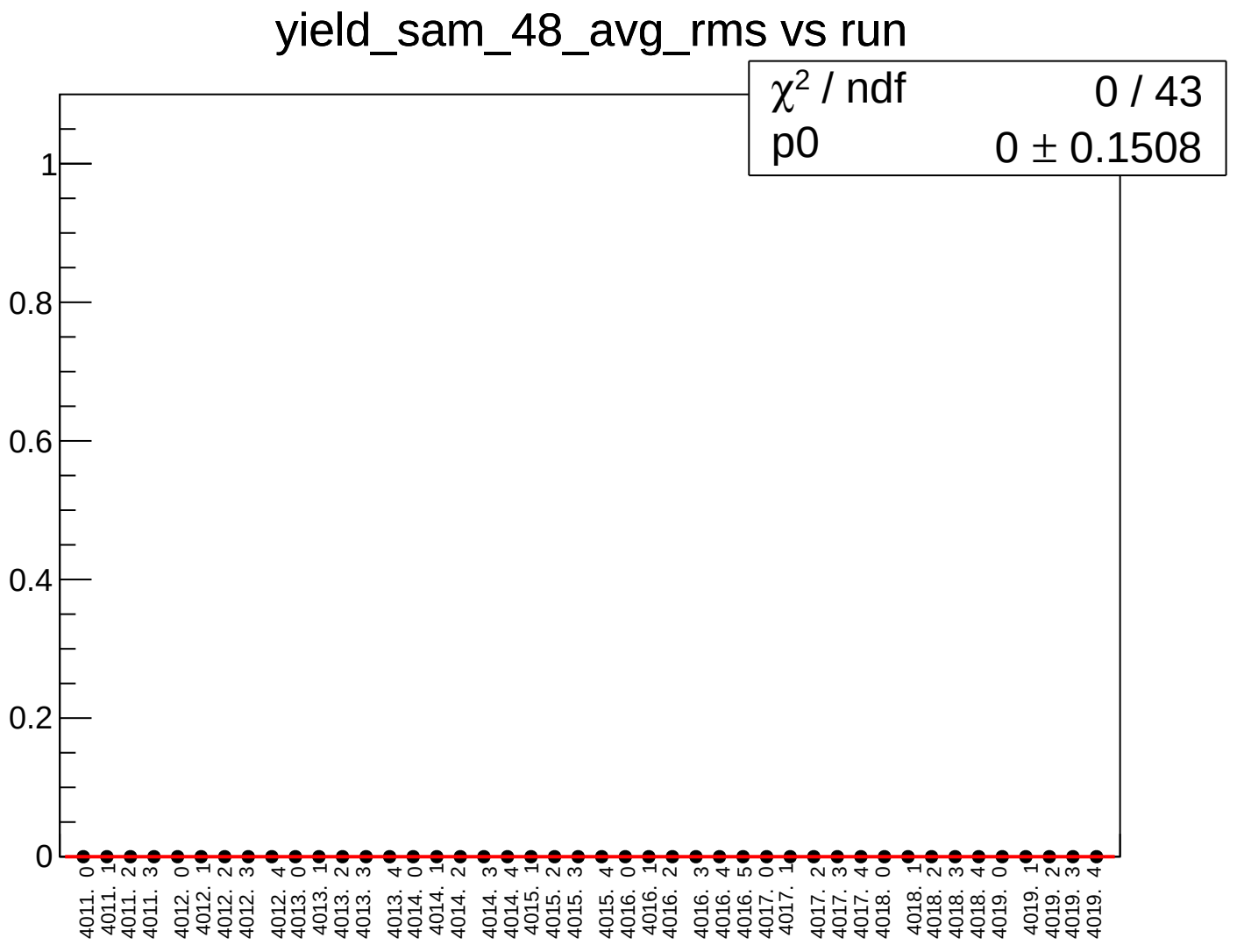
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

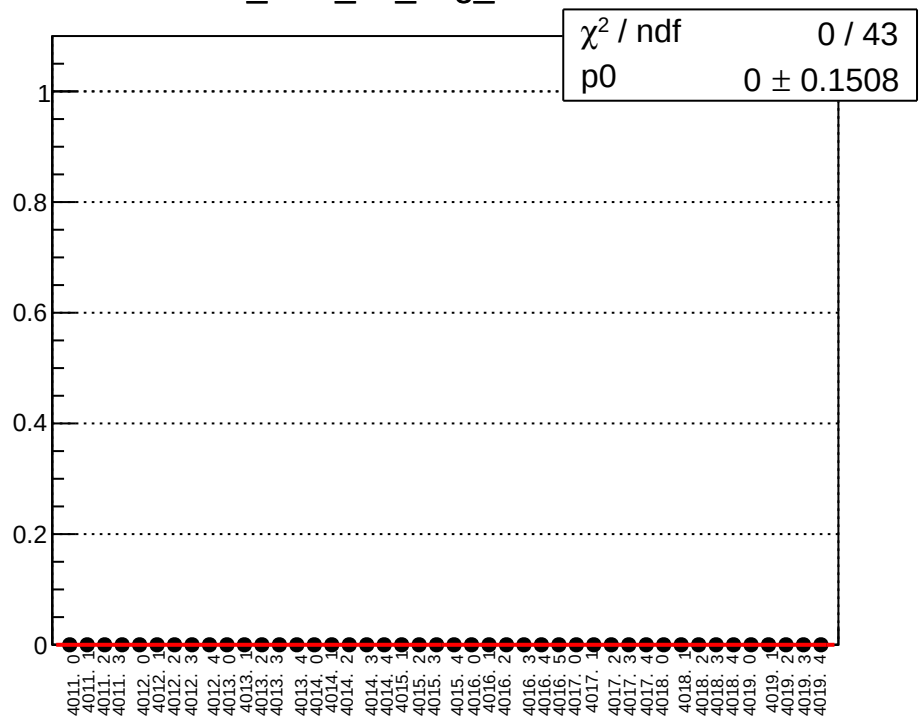

pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

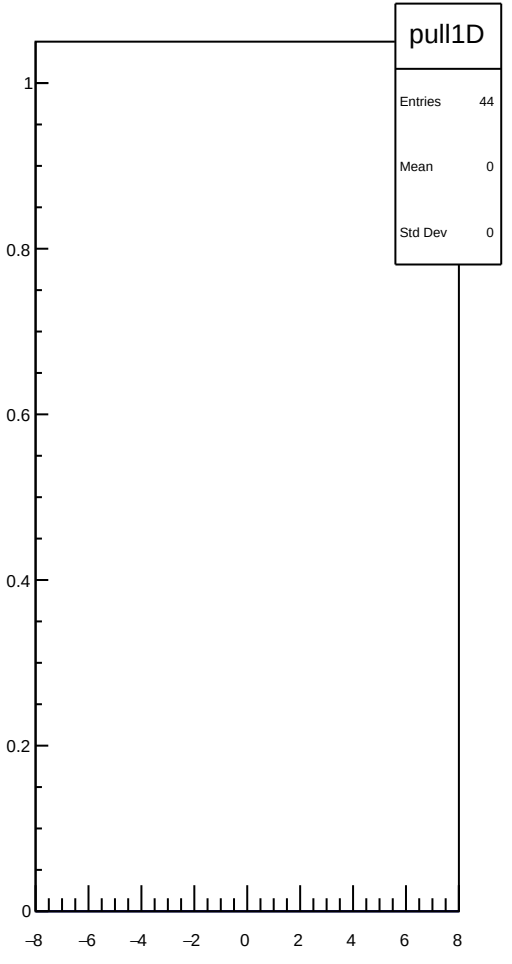

yield_sam_37_avg_rms vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

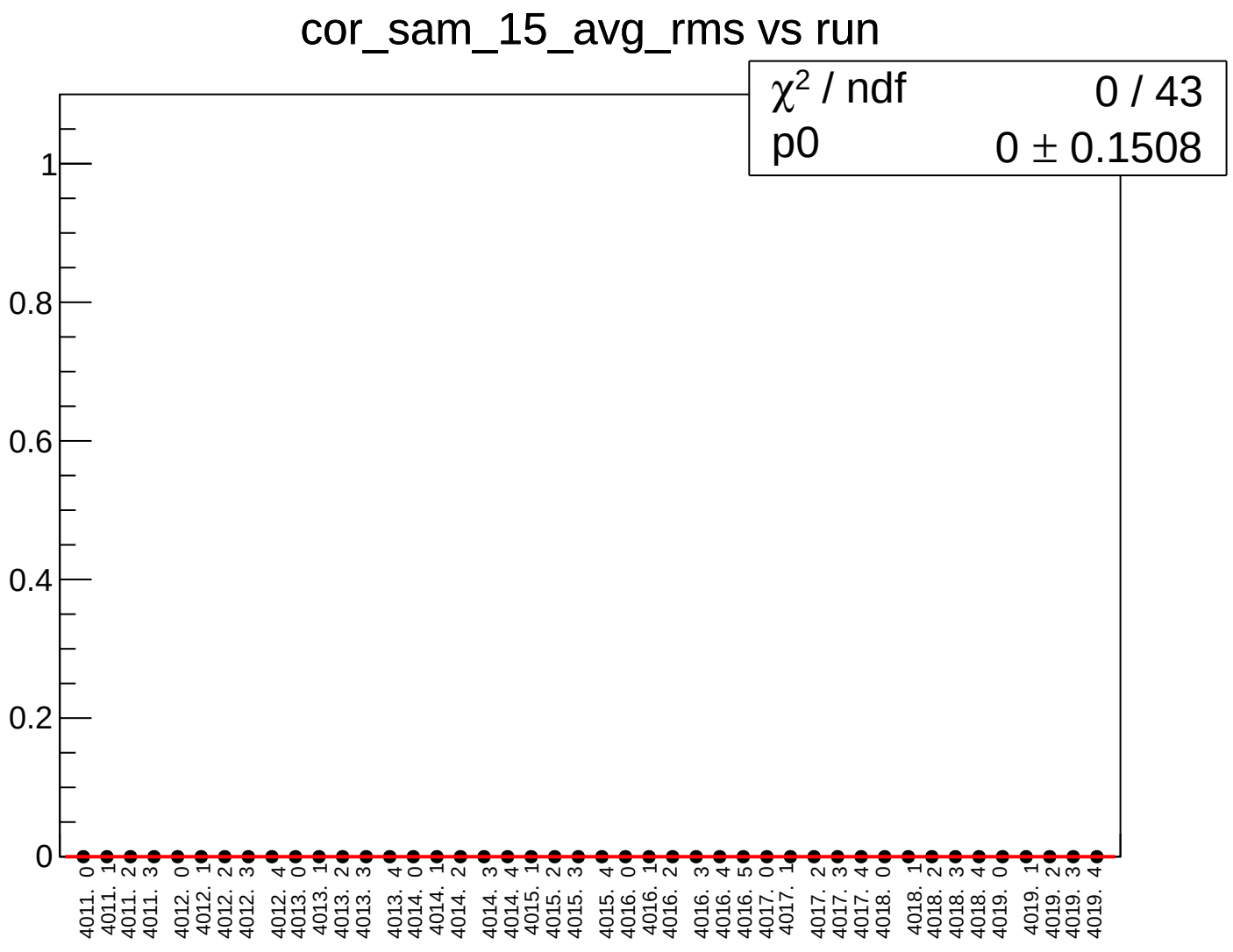

yield_sam_48_avg_mean vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4


pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


yield_sam_48_avg_rms vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4


cor_sam_15_avg_mean vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4


pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


cor_sam_15_avg_rms vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
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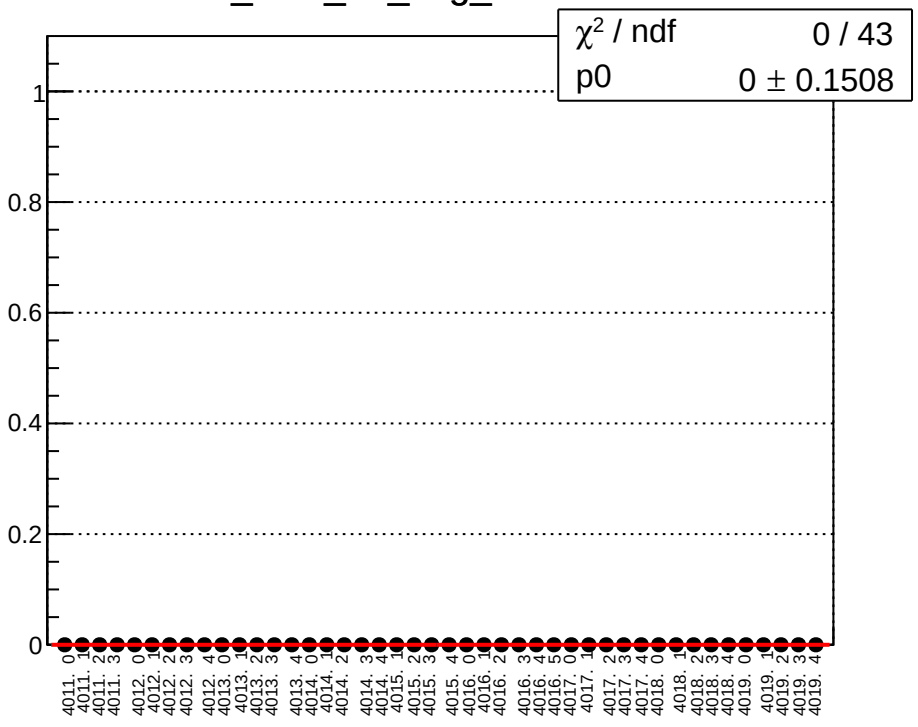
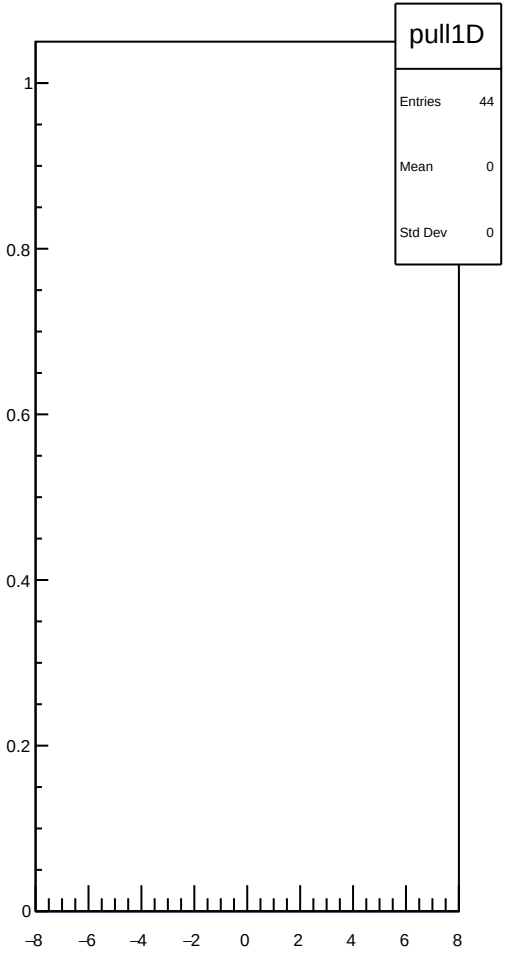
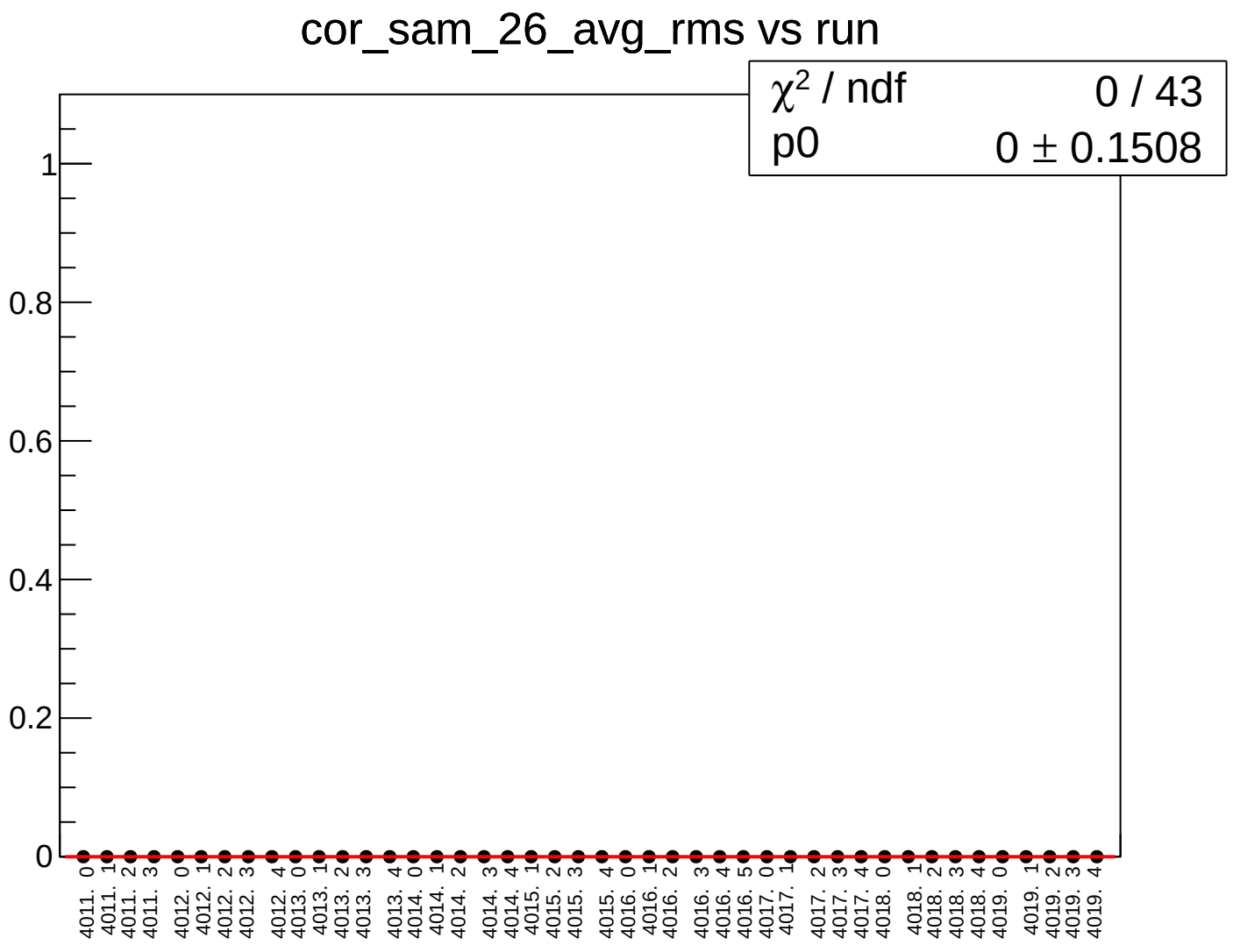
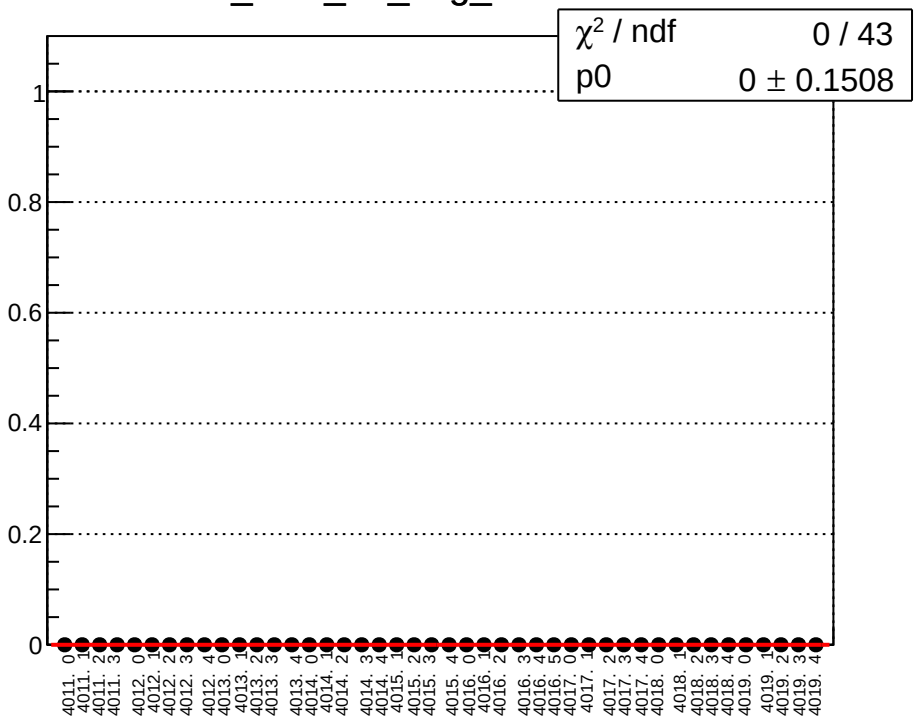
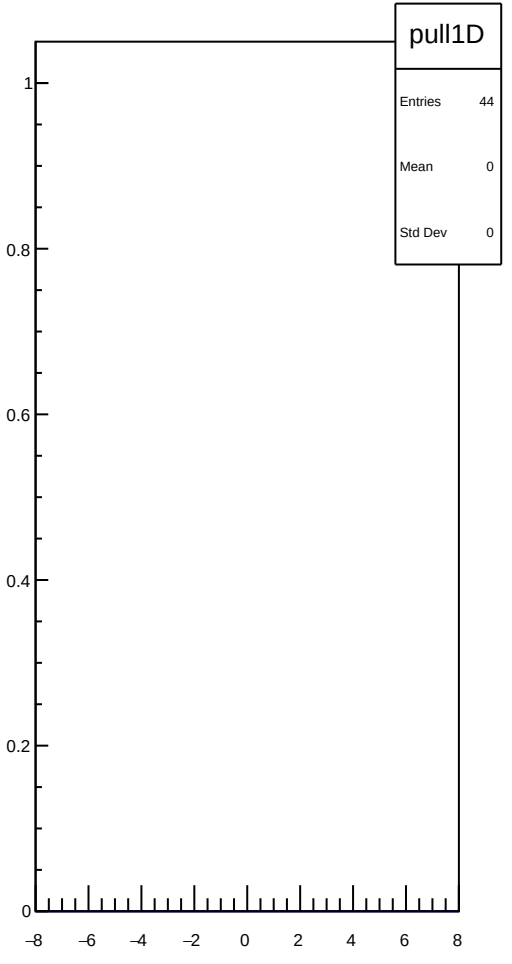
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

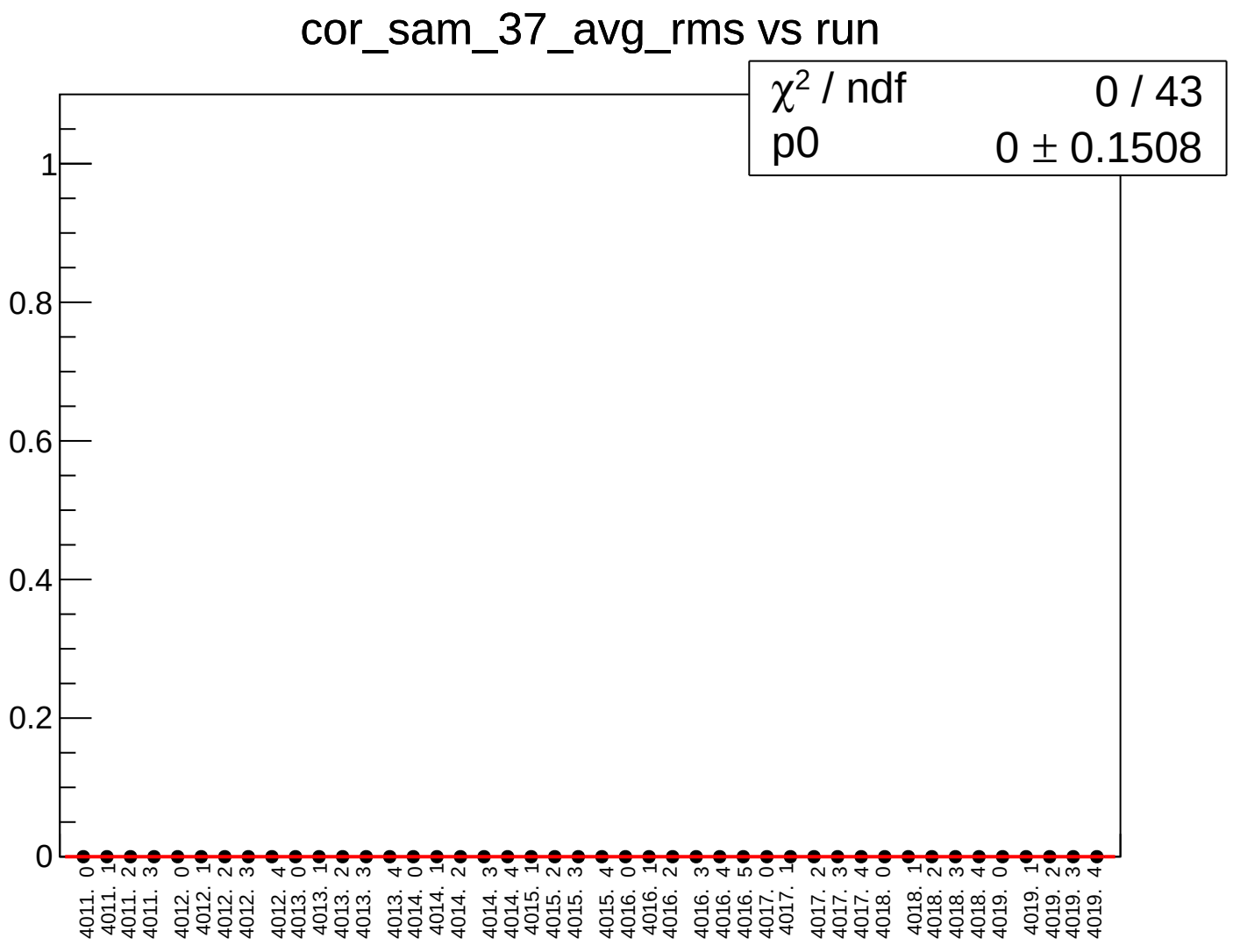

cor_sam_26_avg_mean vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

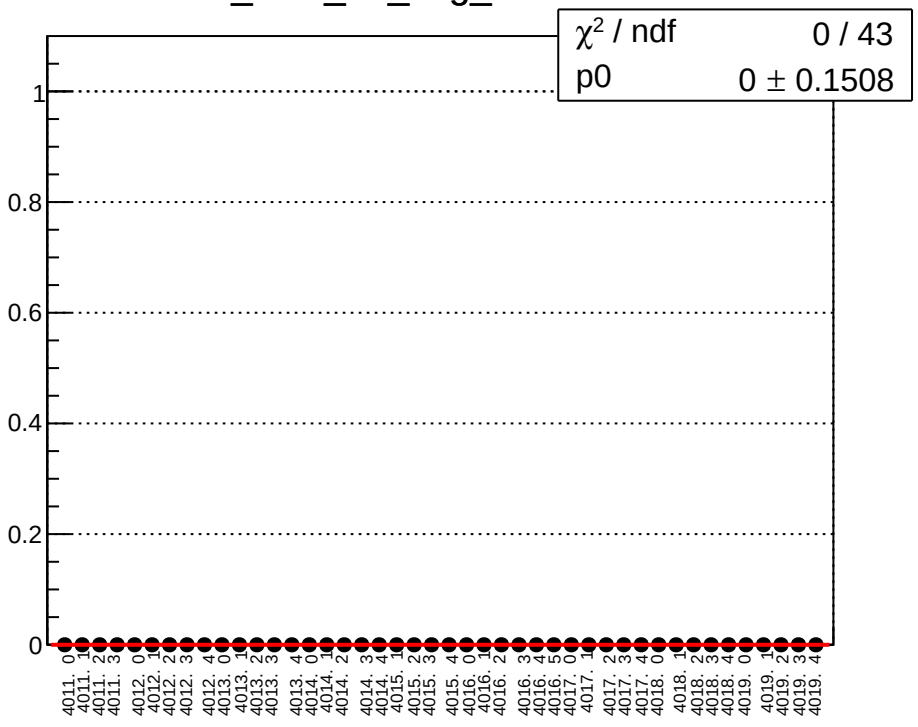

pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

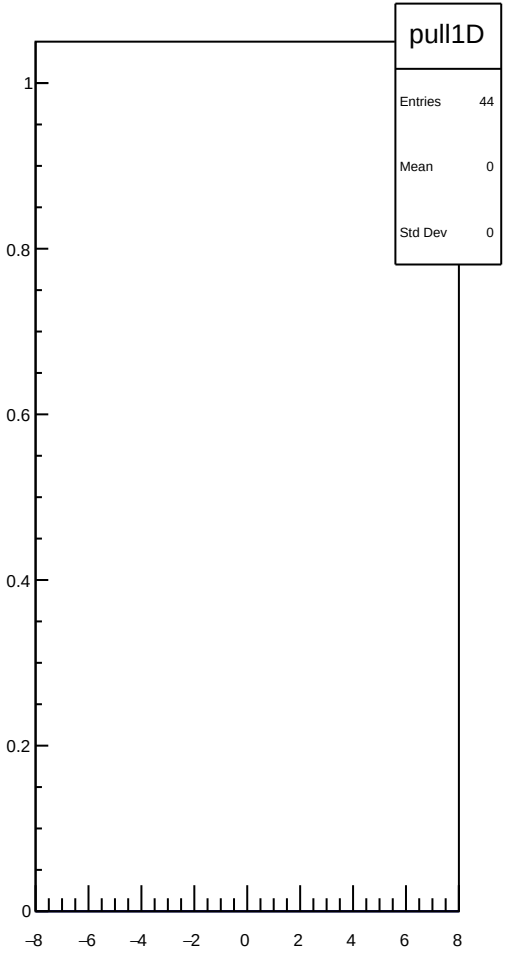

cor_sam_26_avg_rms vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

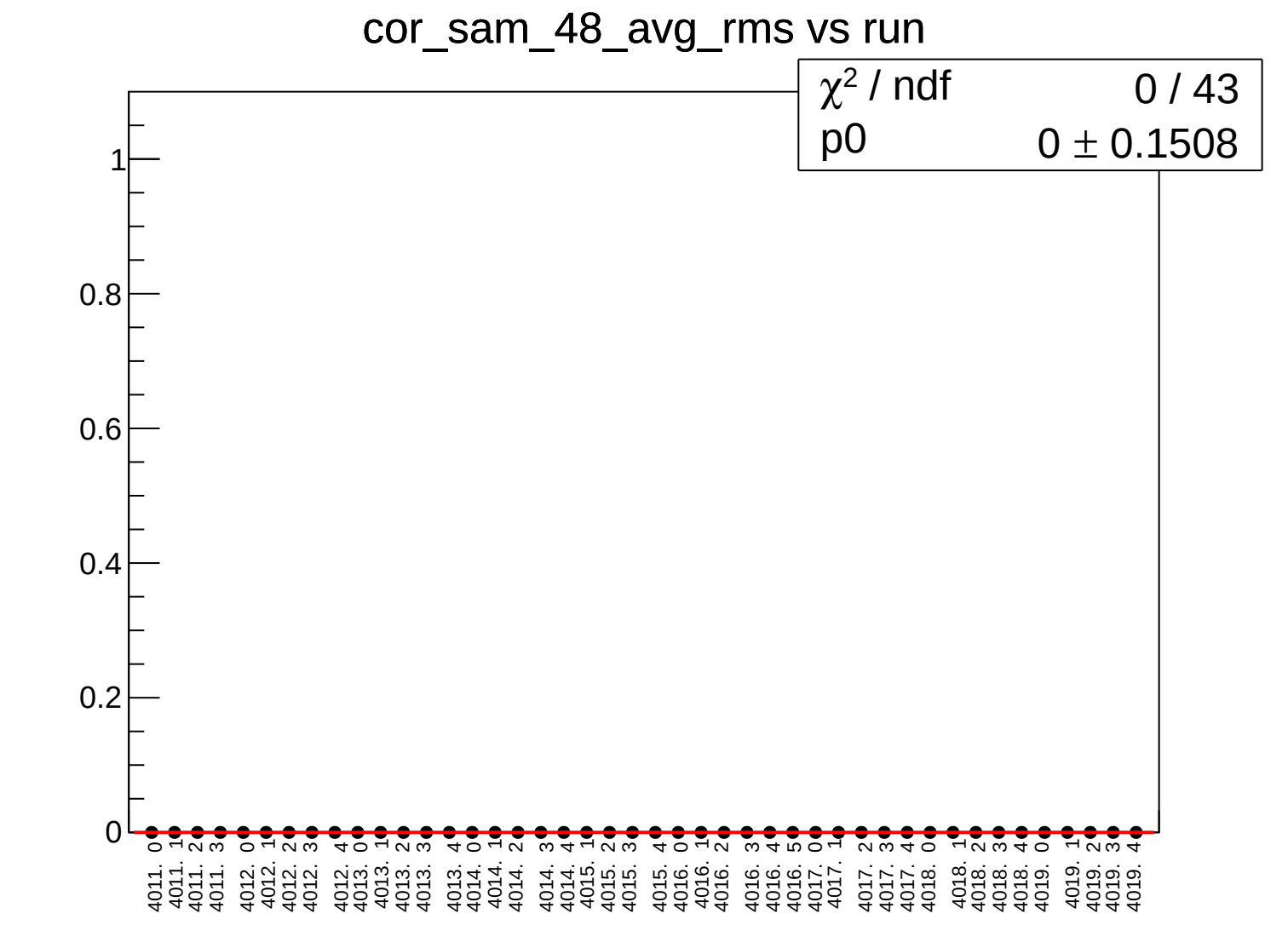

cor_sam_37_avg_mean vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

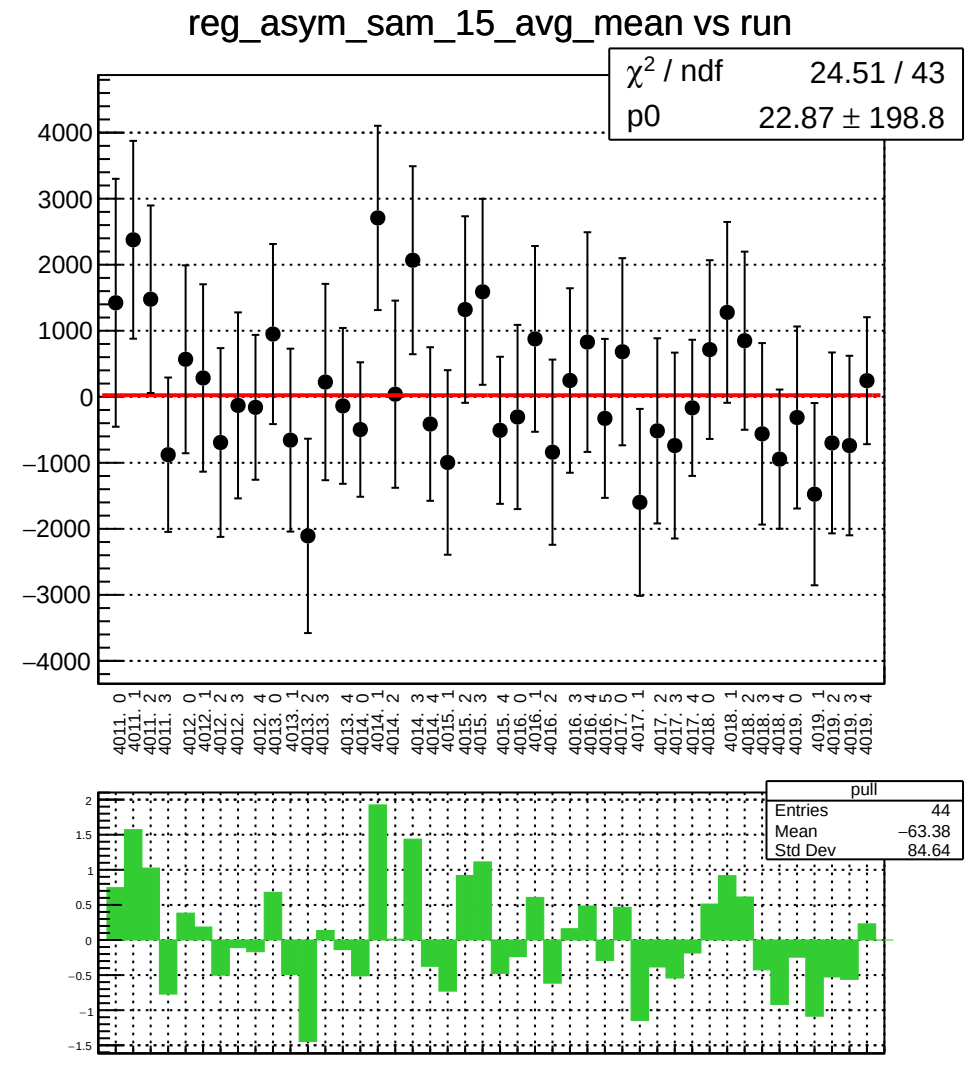

pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

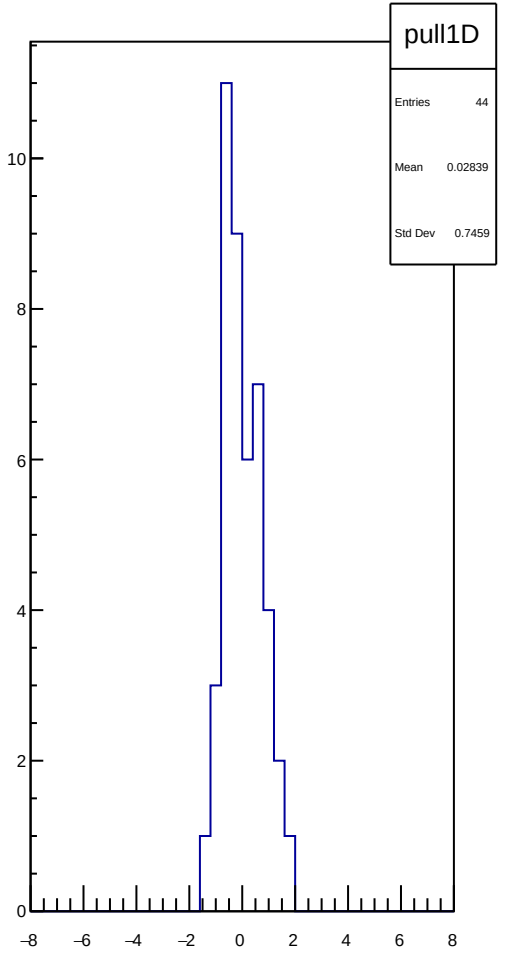

cor_sam_37_avg_rms vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

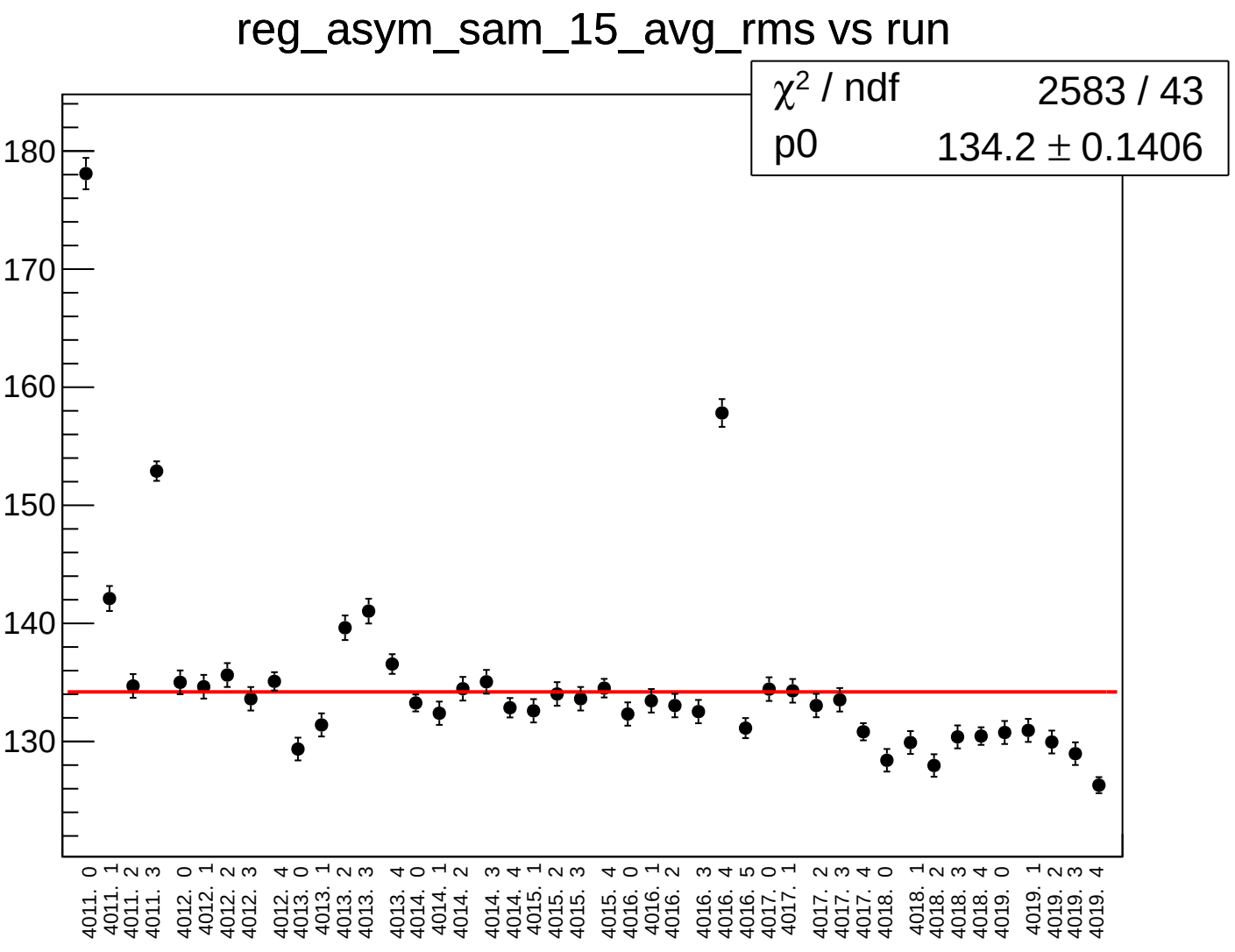

cor_sam_48_avg_mean vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

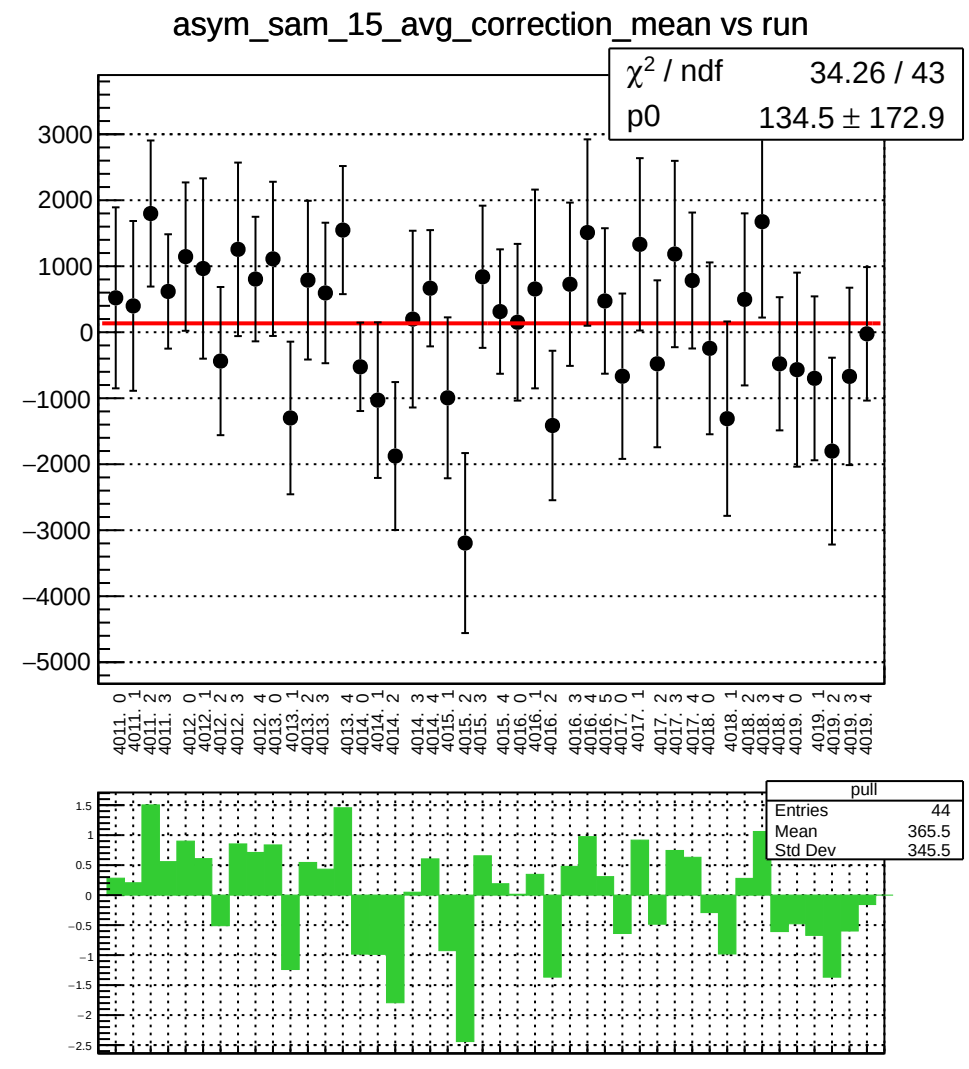

pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

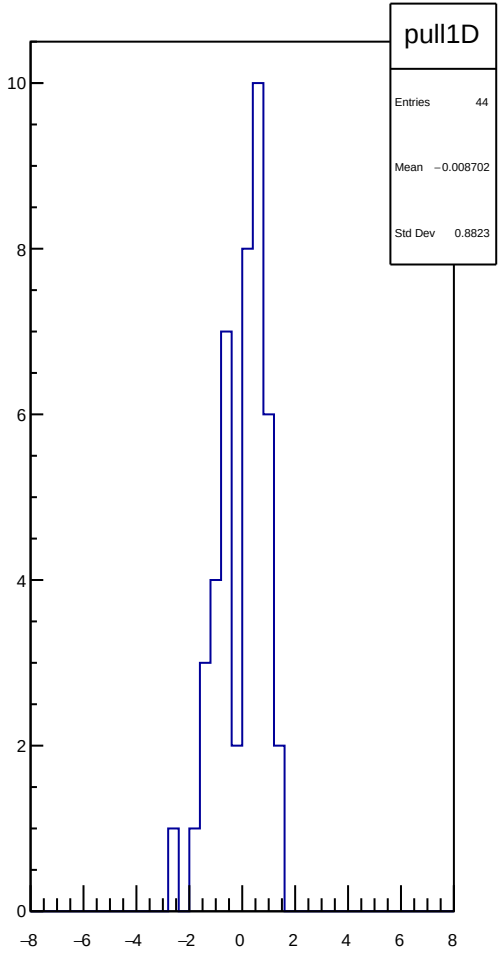

cor_sam_48_avg_rms vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

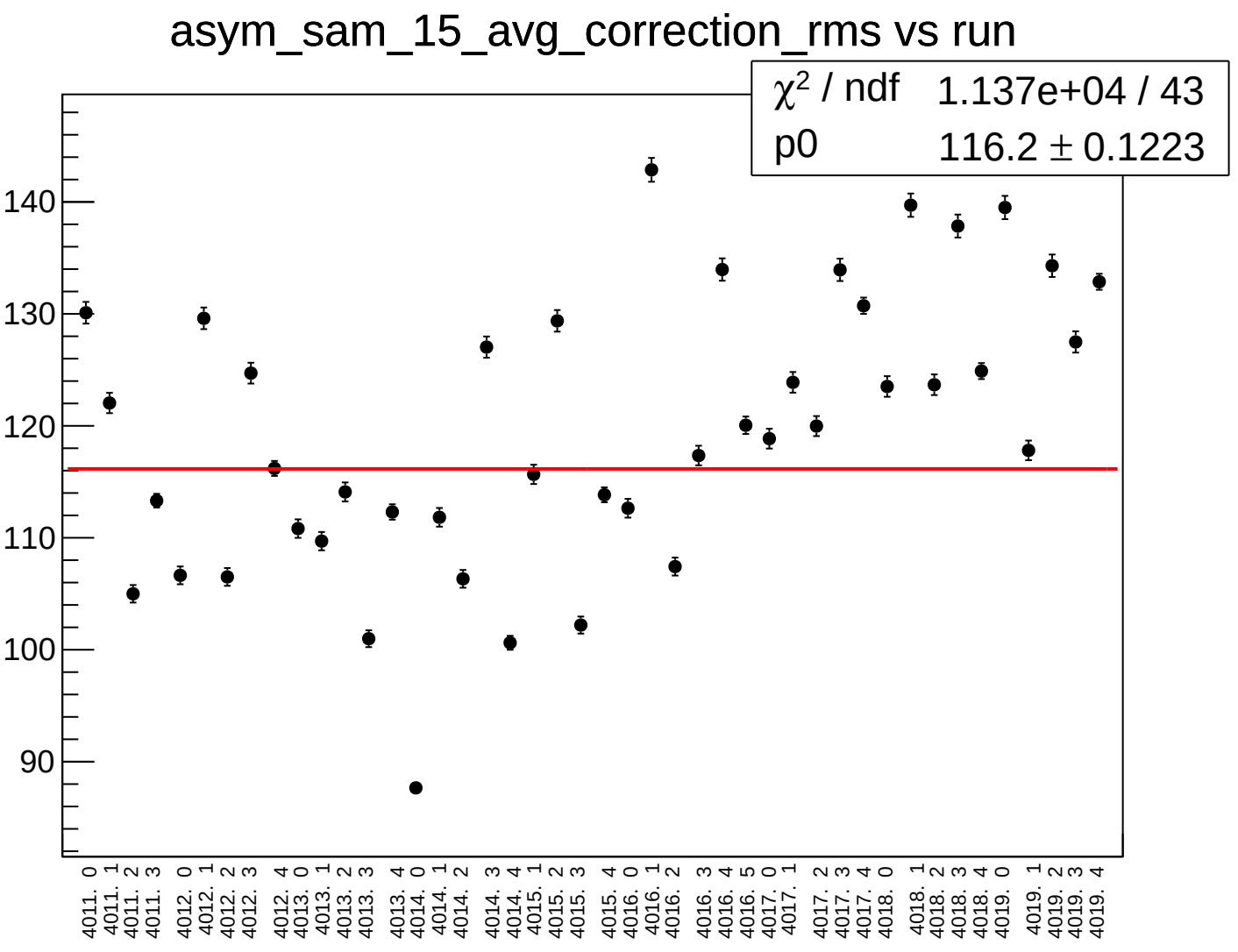

reg_asym_sam_15_avg_mean vs run
χ² / ndf 24.51 / 43
p0 22.87 ± 198.8
pull
Entries 44
Mean −63.38
Std Dev 84.64

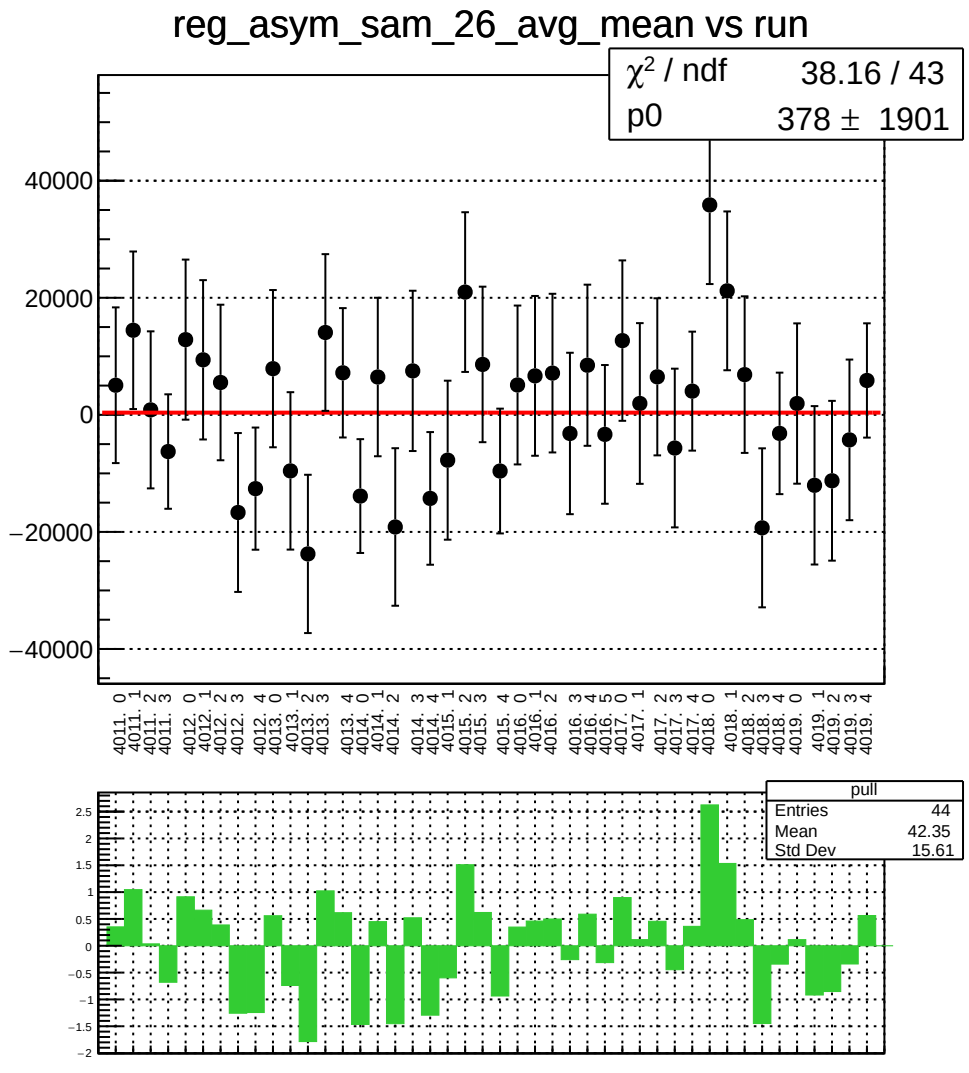

pull1D
Entries 44
Mean 0.02839
Std Dev 0.7459

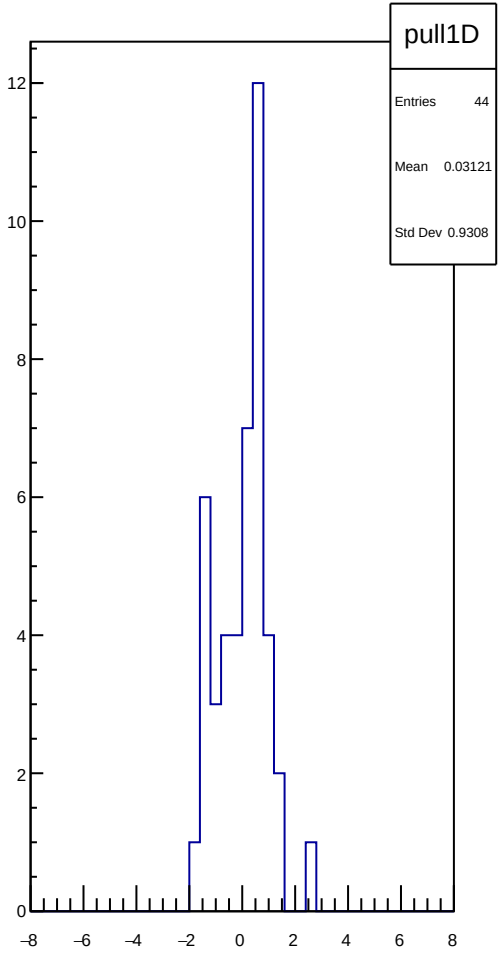

reg_asym_sam_15_avg_rms vs run
χ² / ndf 2583 / 43
p0 134.2 ± 0.1406
180
170
160
150
140
130
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

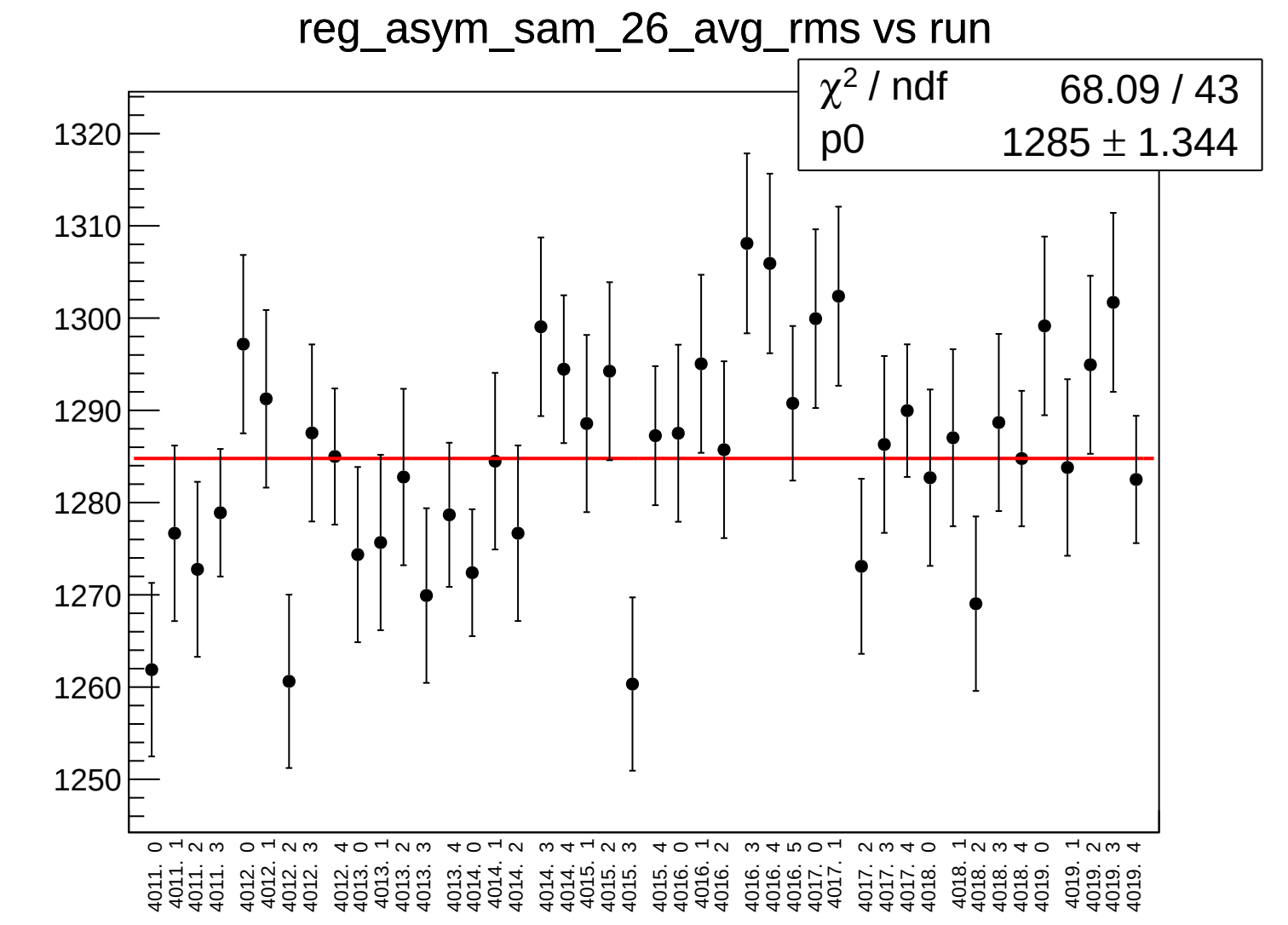

asym_sam_15_avg_correction_mean vs run
χ² / ndf 34.26 / 43
p0 134.5 ± 172.9
pull
Entries 44
Mean 365.5
Std Dev 345.5

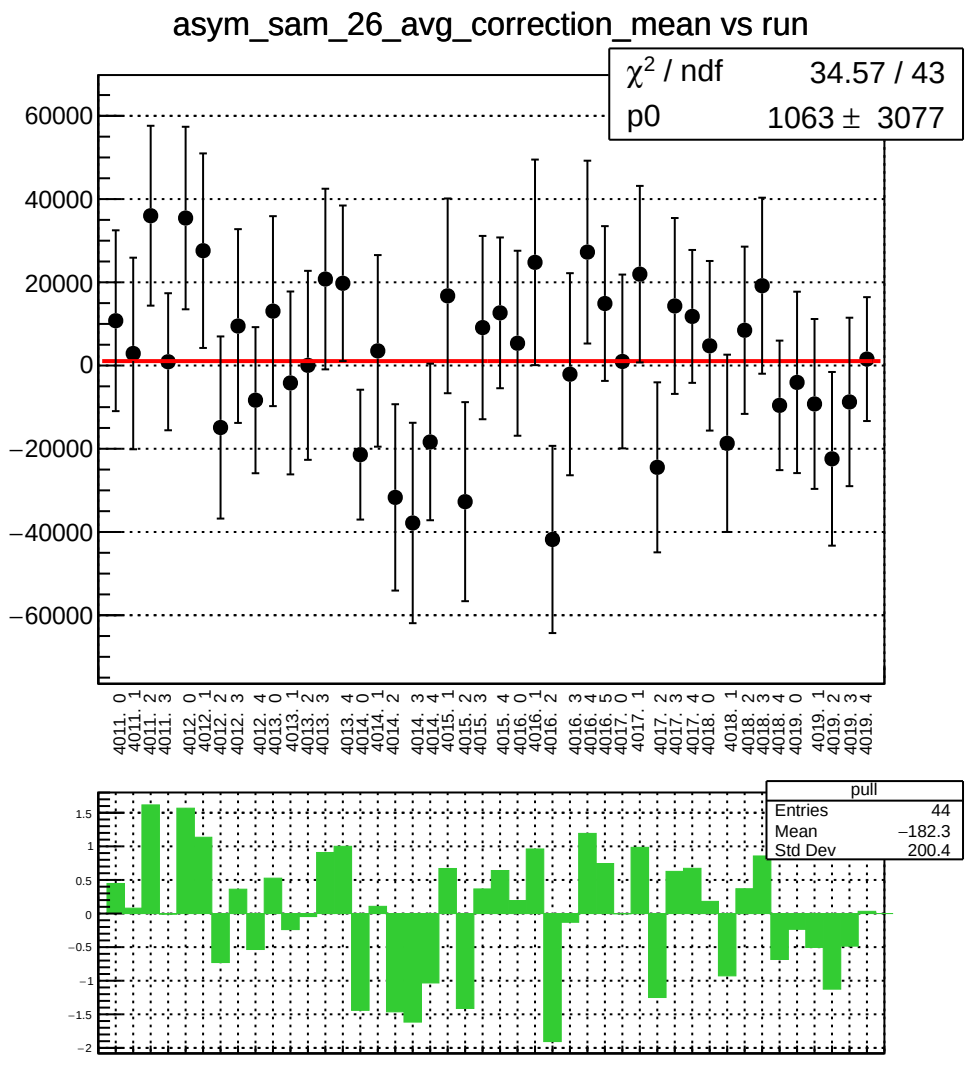

pull1D
Entries 44
Mean −0.008702
Std Dev 0.8823

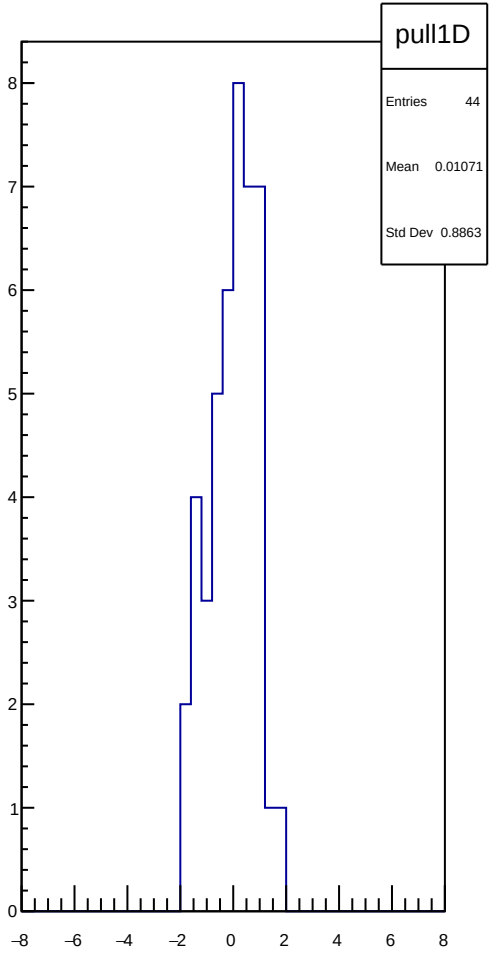

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.137e+04 / 43
p0 116.2 ± 0.1223
140
130
120
110
100
90
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

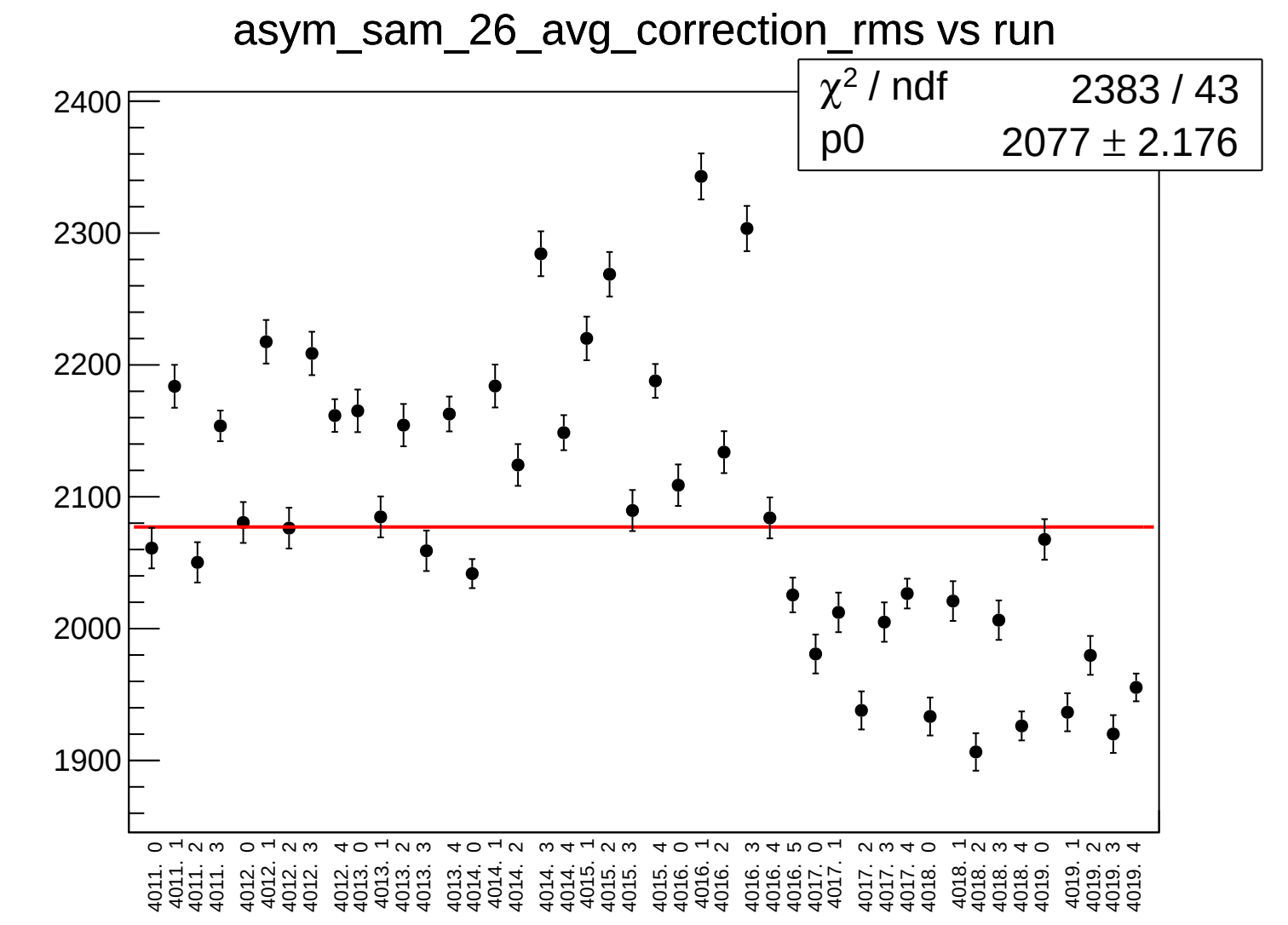

reg_asym_sam_26_avg_mean vs run
χ² / ndf 38.16 / 43
p0 378 ± 1901
40000
20000
0
−20000
−40000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 42.35
Std Dev 15.61
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

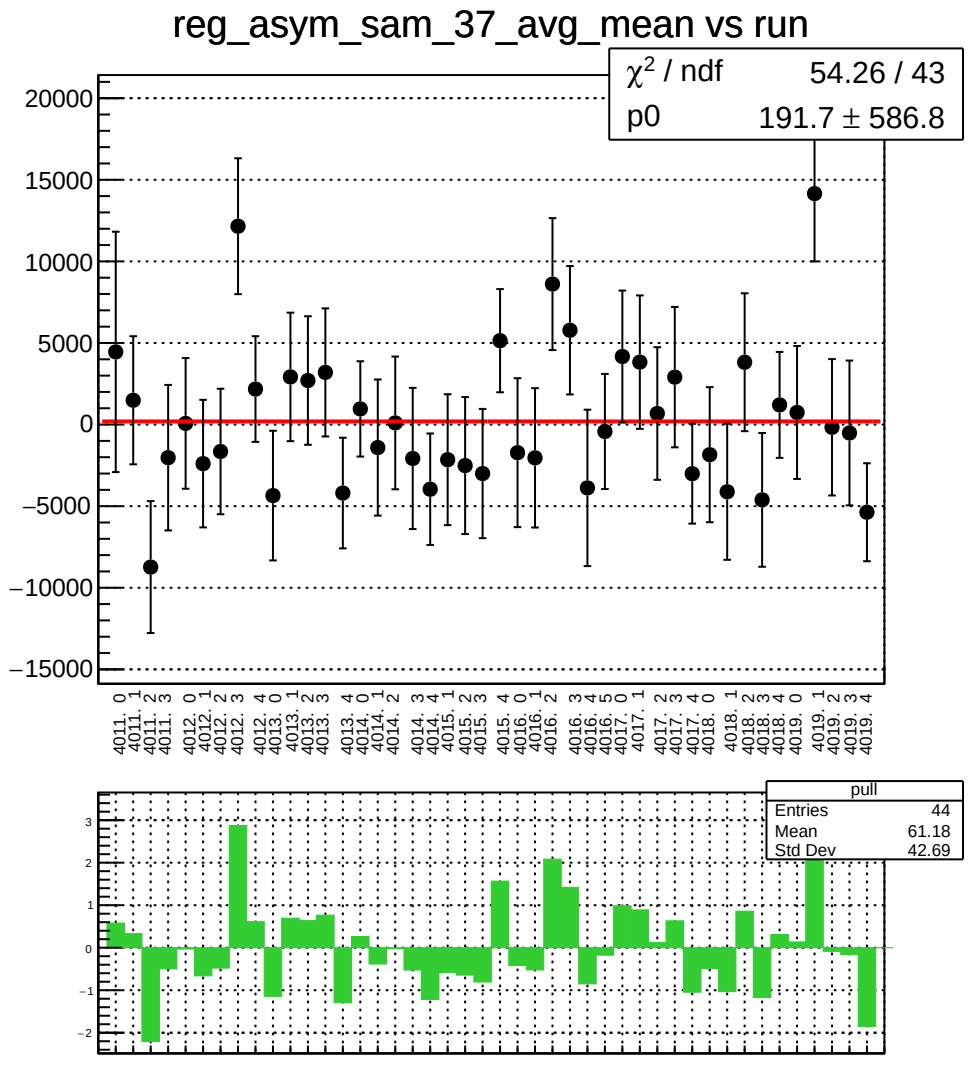

pull1D
Entries 44
Mean 0.03121
Std Dev 0.9308
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

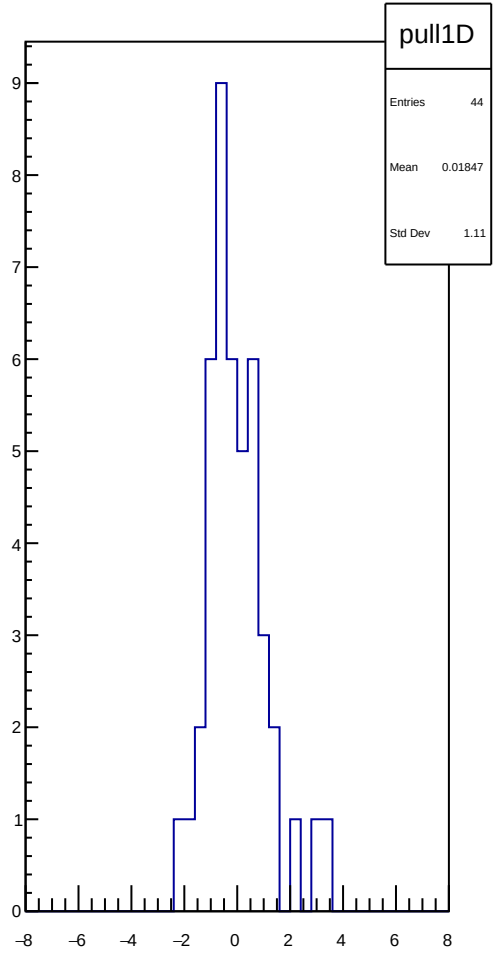

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 68.09 / 43
p0 1285 ± 1.344
1320
1310
1300
1290
1280
1270
1260
1250
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

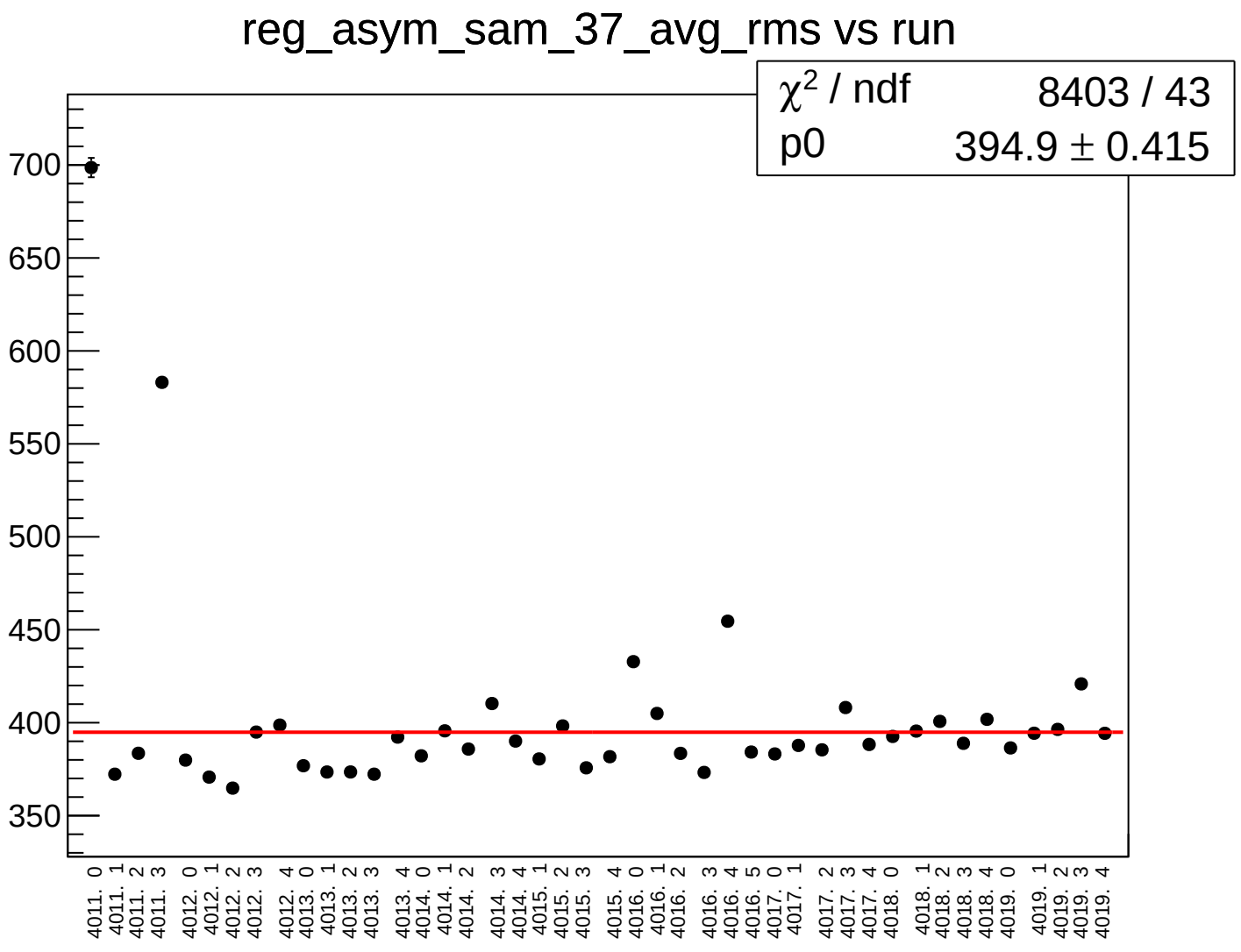

asym_sam_26_avg_correction_mean vs run
χ² / ndf 34.57 / 43
p0 1063 ± 3077
60000
40000
20000
0
−20000
−40000
−60000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −182.3
Std Dev 200.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

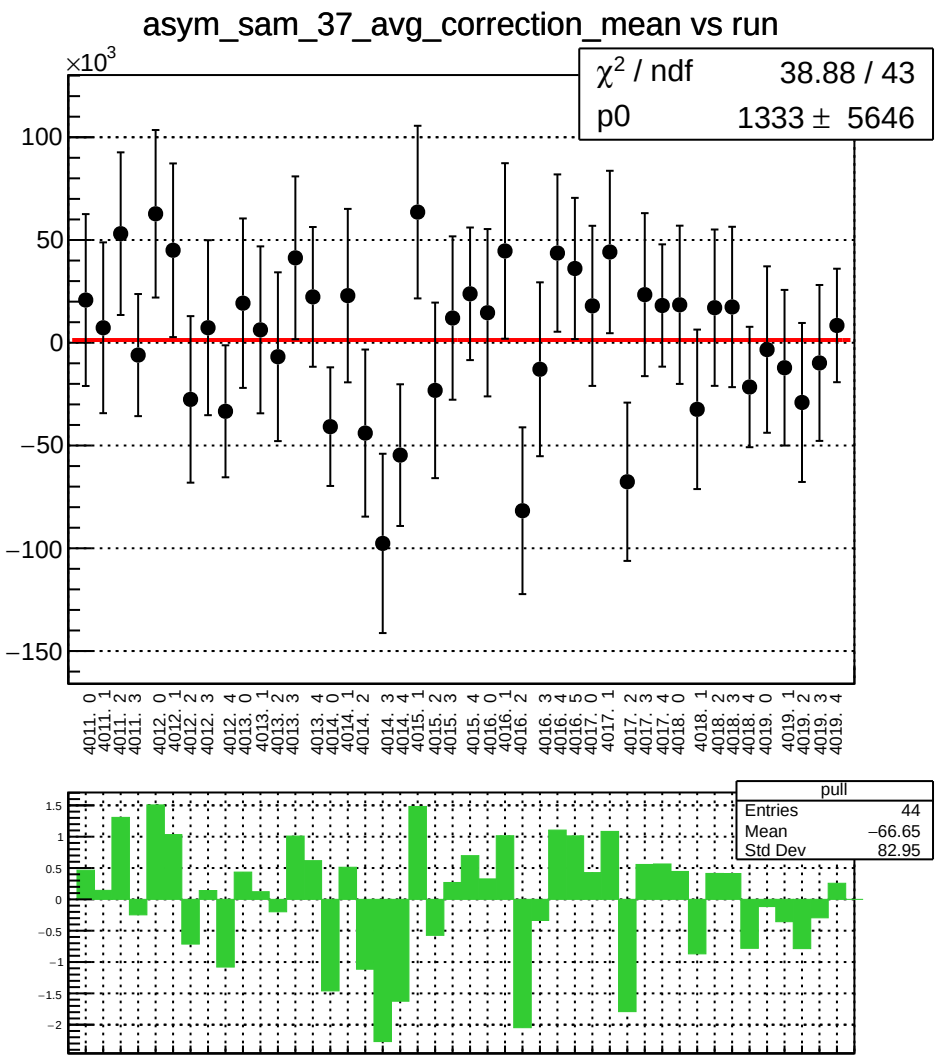

pull1D
Entries 44
Mean 0.01071
Std Dev 0.8863
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

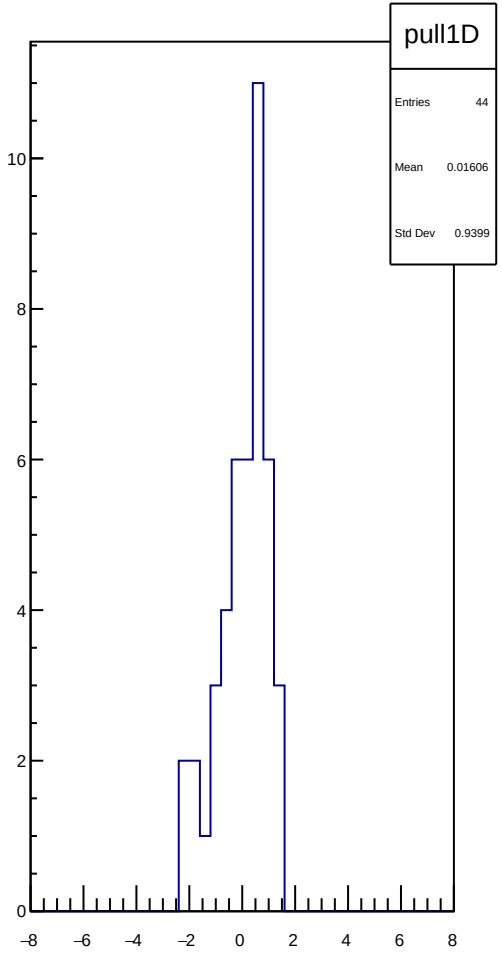

asym_sam_26_avg_correction_rms vs run
χ² / ndf 2383 / 43
p0 2077 ± 2.176
2400
2300
2200
2100
2000
1900
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

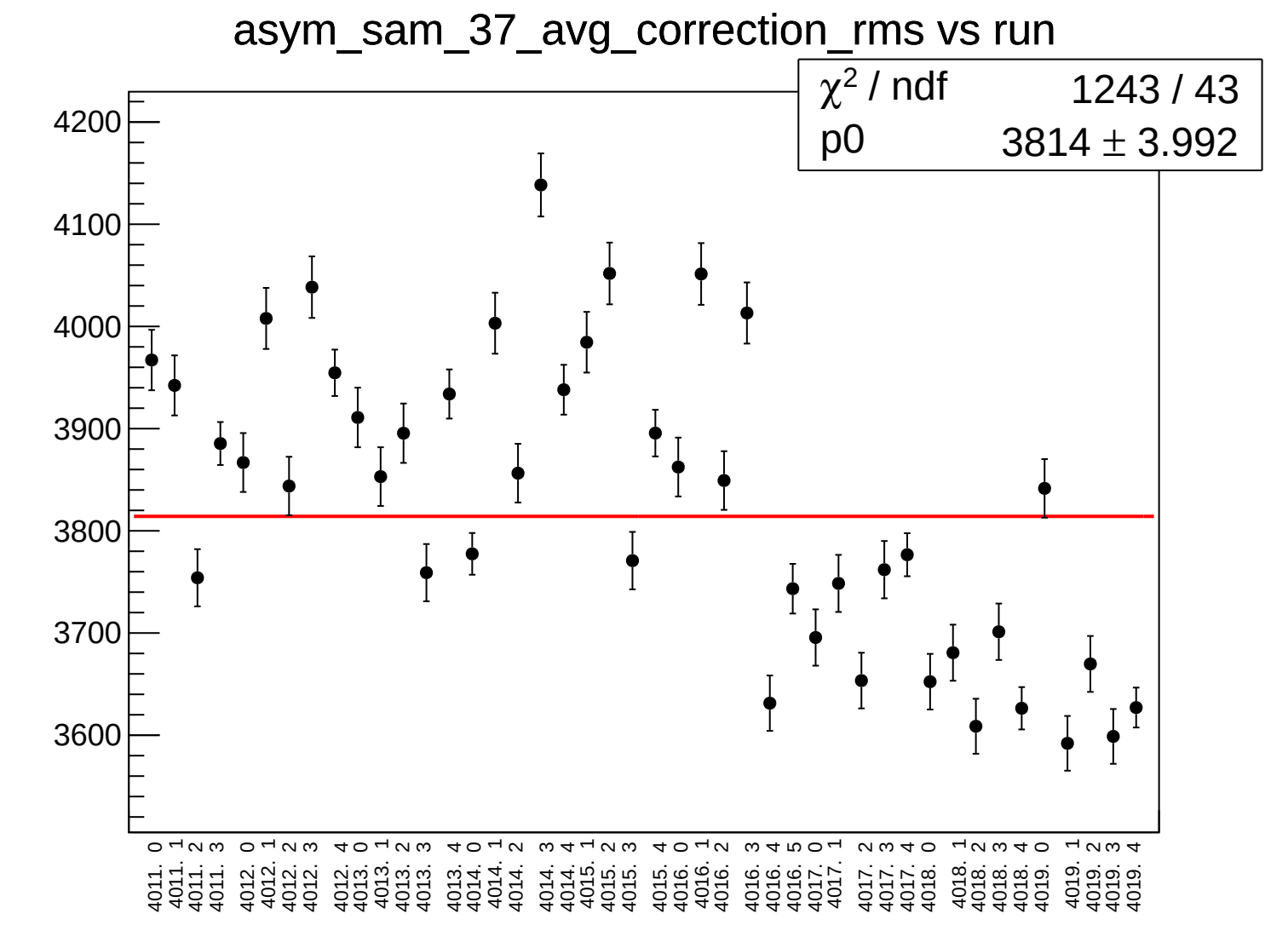

reg_asym_sam_37_avg_mean vs run
χ² / ndf 54.26 / 43
p0 191.7 ± 586.8
pull
Entries 44
Mean 61.18
Std Dev 42.69

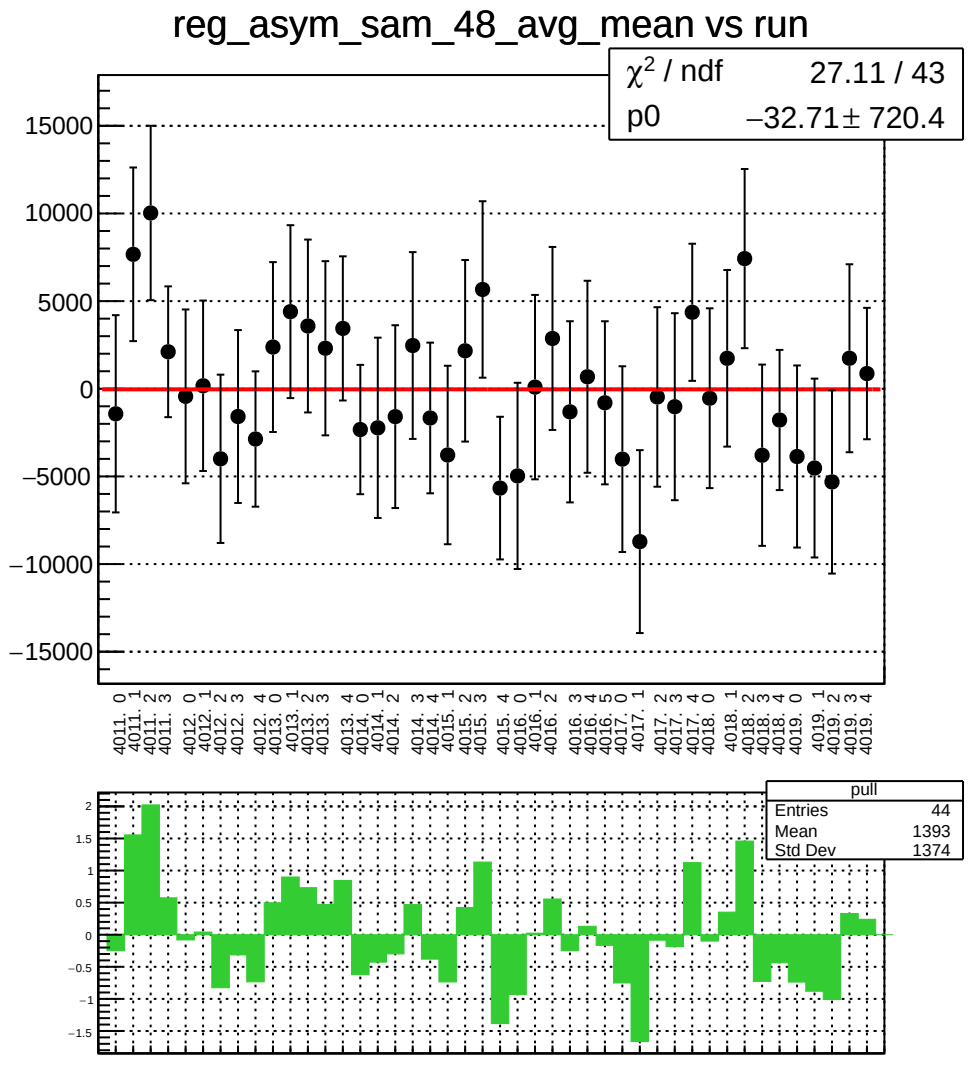

pull1D
Entries 44
Mean 0.01847
Std Dev 1.11

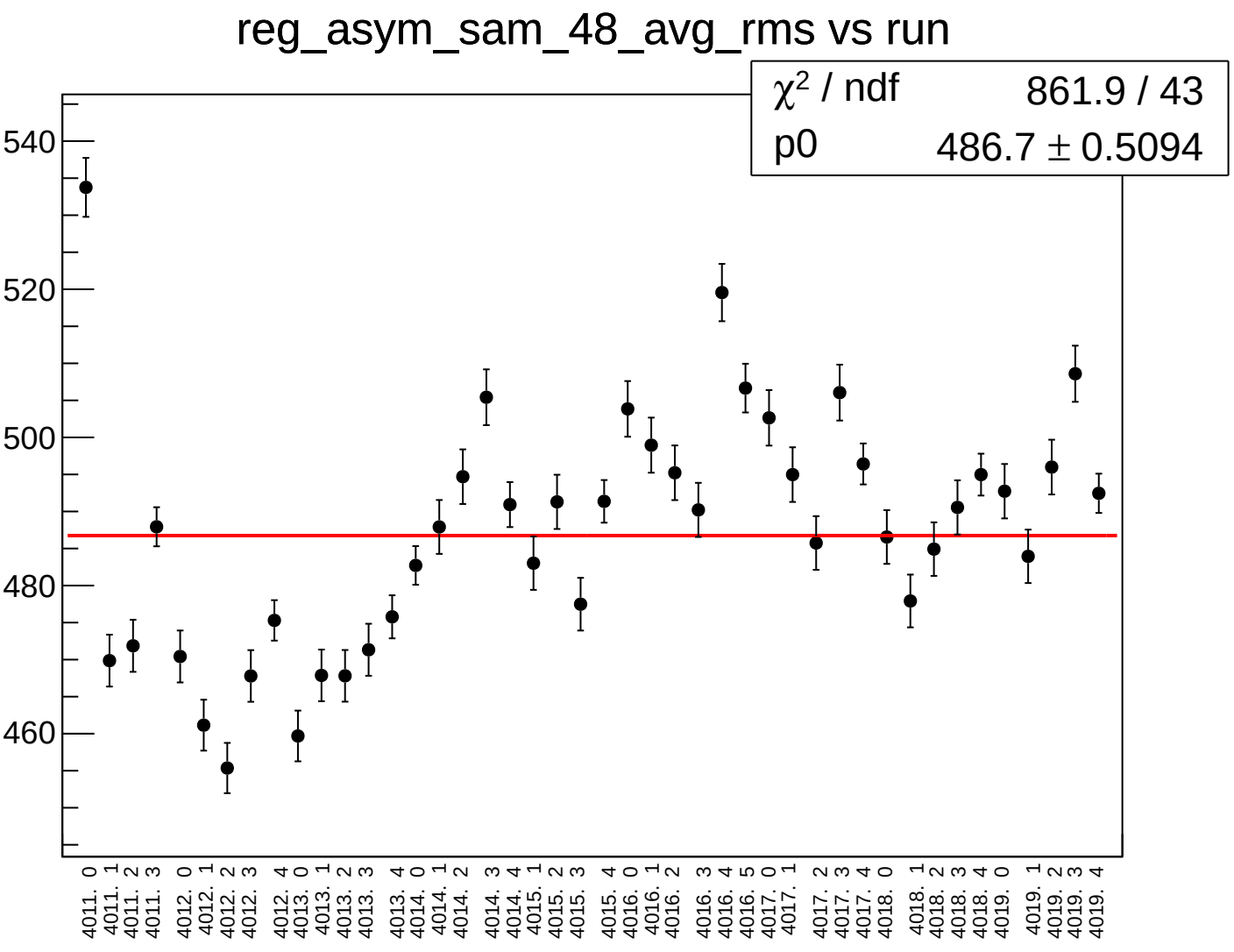

reg_asym_sam_37_avg_rms vs run
χ² / ndf 8403 / 43
p0 394.9 ± 0.415
700
650
600
550
500
450
400
350
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

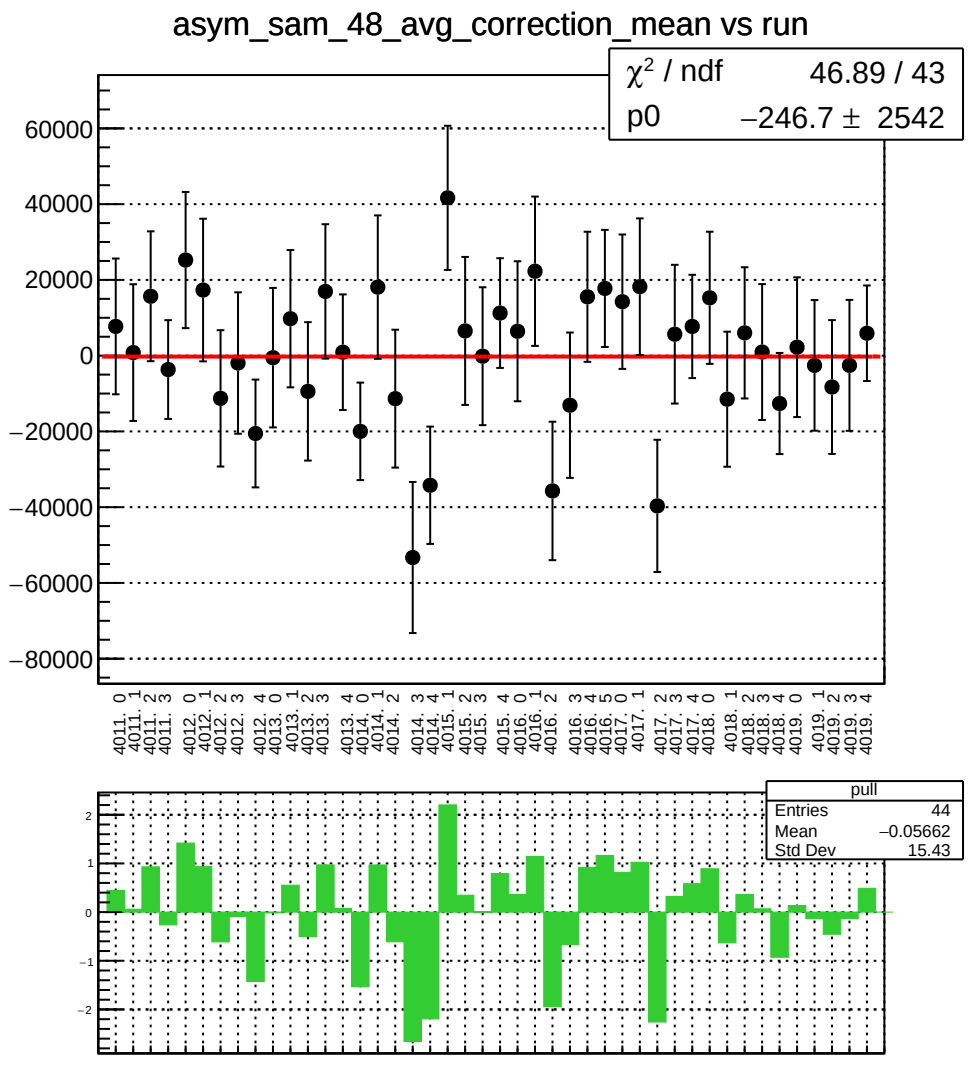

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 38.88 / 43
p0 1333 ± 5646
100
50
0
−50
−100
−150
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4016. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −66.65
Std Dev 82.95
1.5
1
0.5
0
−0.5
−1
−1.5
−2

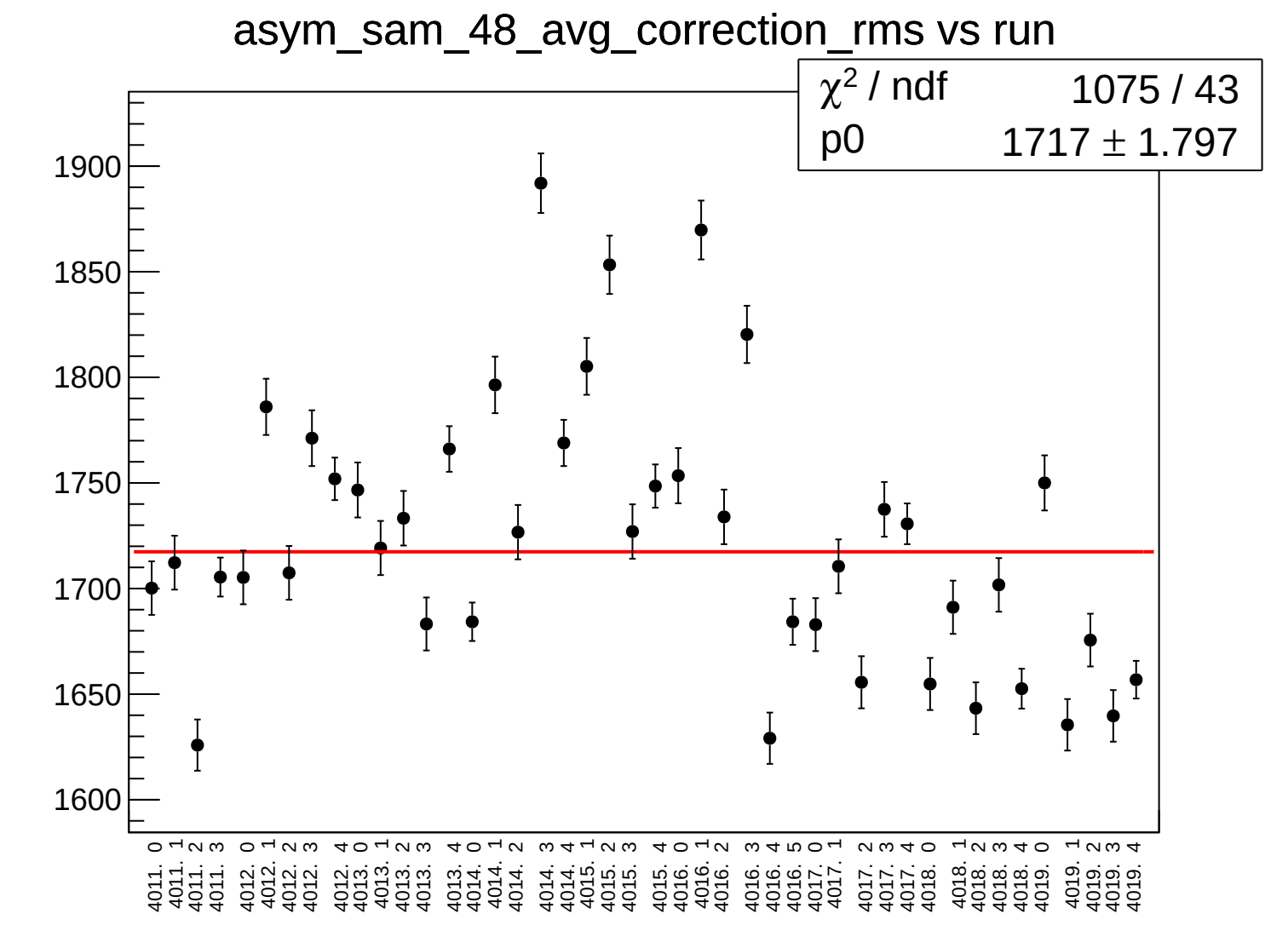

pull1D
Entries 44
Mean 0.01606
Std Dev 0.9399
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

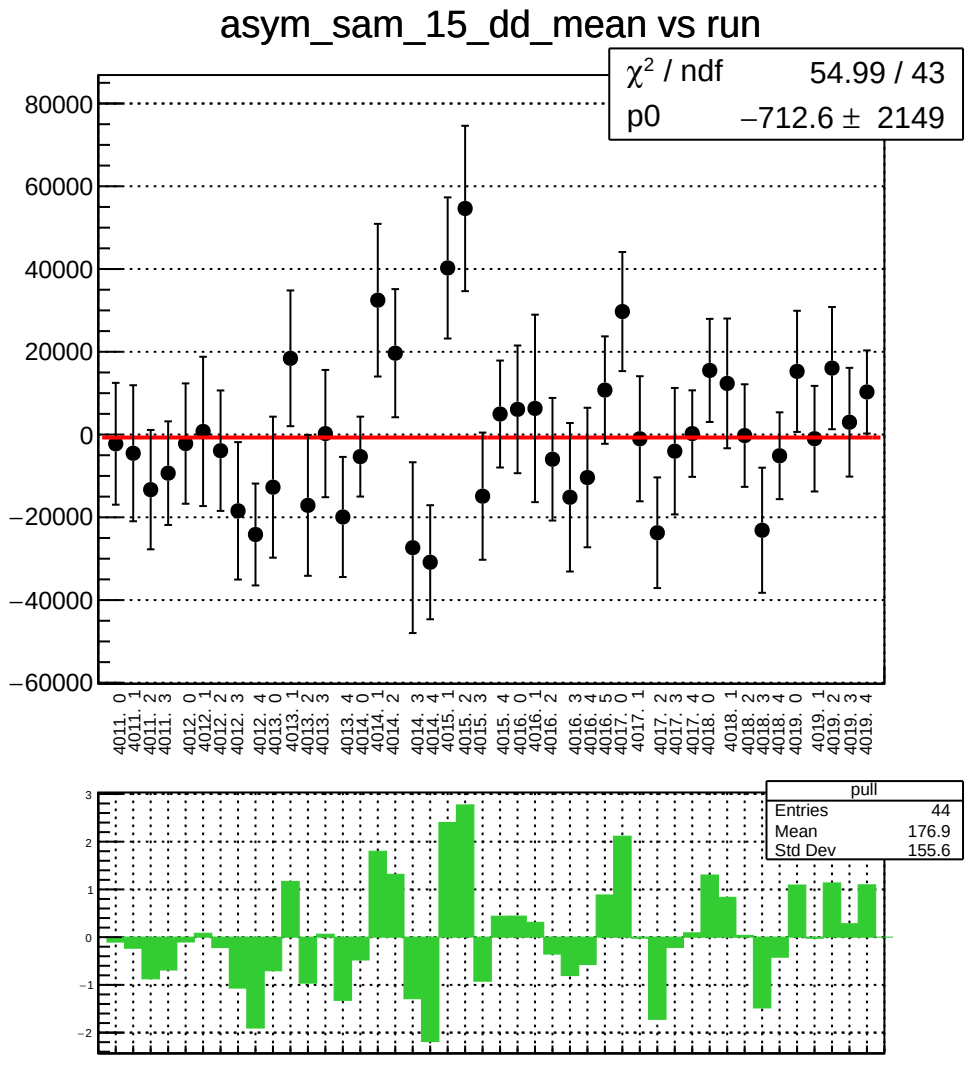

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1243 / 43
p0 3814 ± 3.992
4200
4100
4000
3900
3800
3700
3600
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

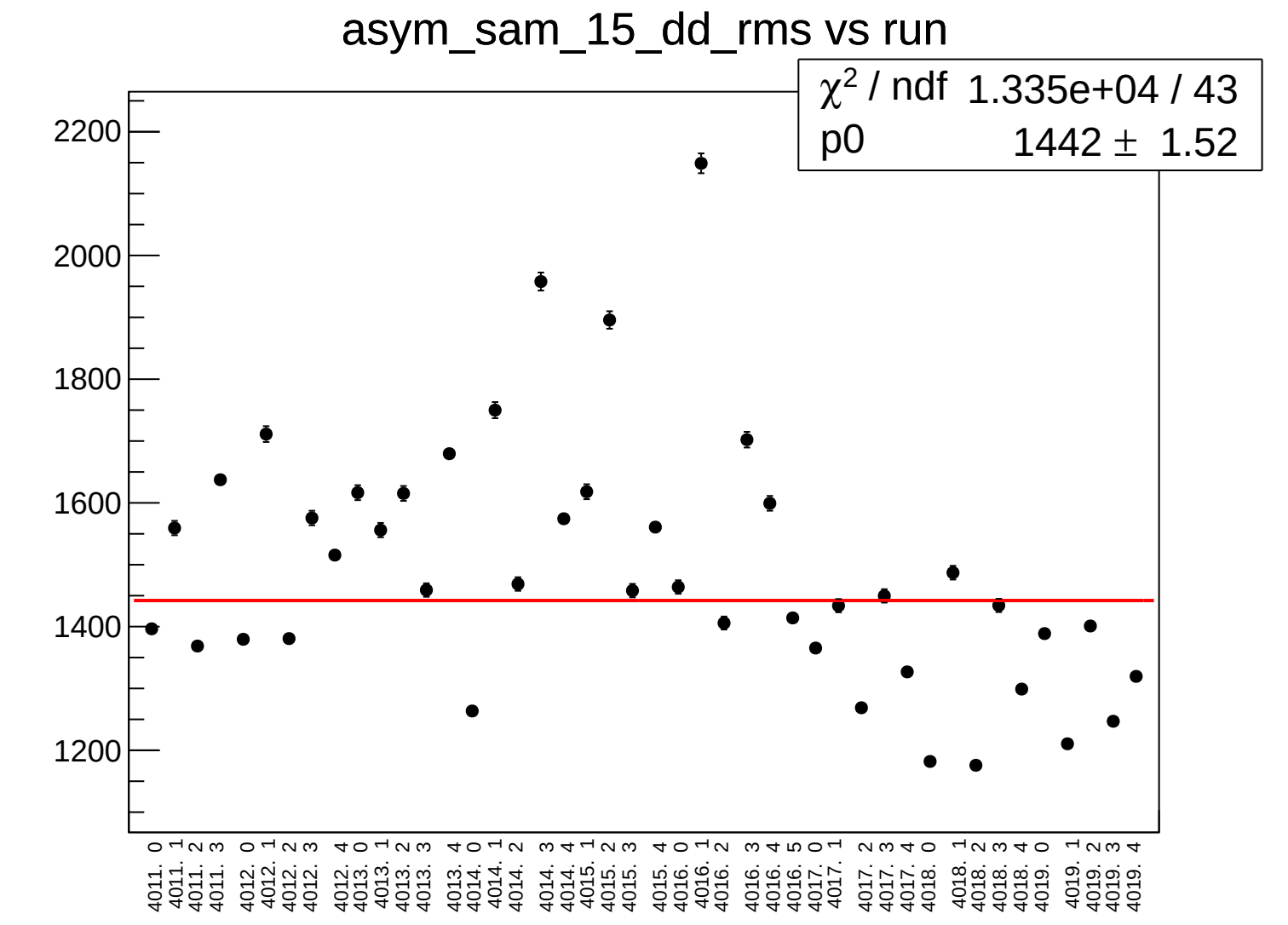

reg_asym_sam_48_avg_mean vs run
χ² / ndf 27.11 / 43
p0 −32.71 ± 720.4
15000
10000
5000
0
−5000
−10000
−15000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 1393
Std Dev 1374
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean −0.001948
Std Dev 0.785
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

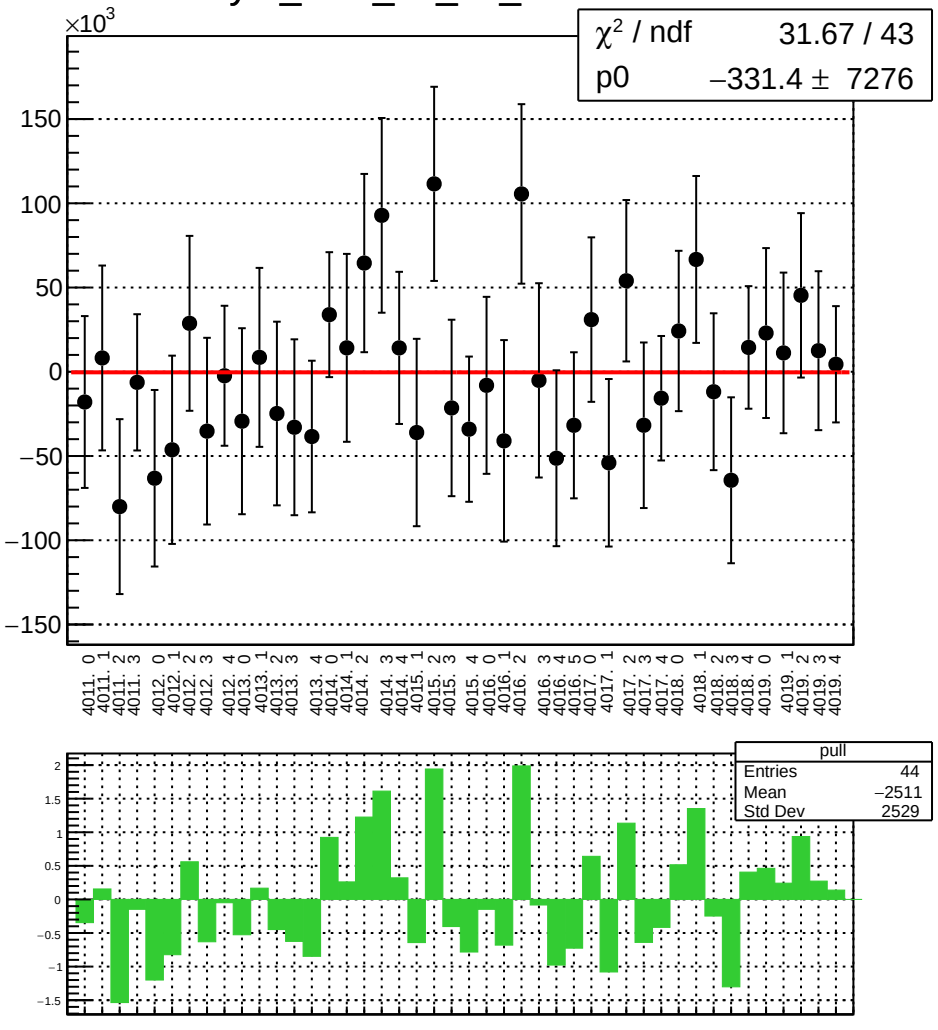

reg_asym_sam_48_avg_rms vs run
χ² / ndf 861.9 / 43
p0 486.7 ± 0.5094
540
520
500
480
460
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

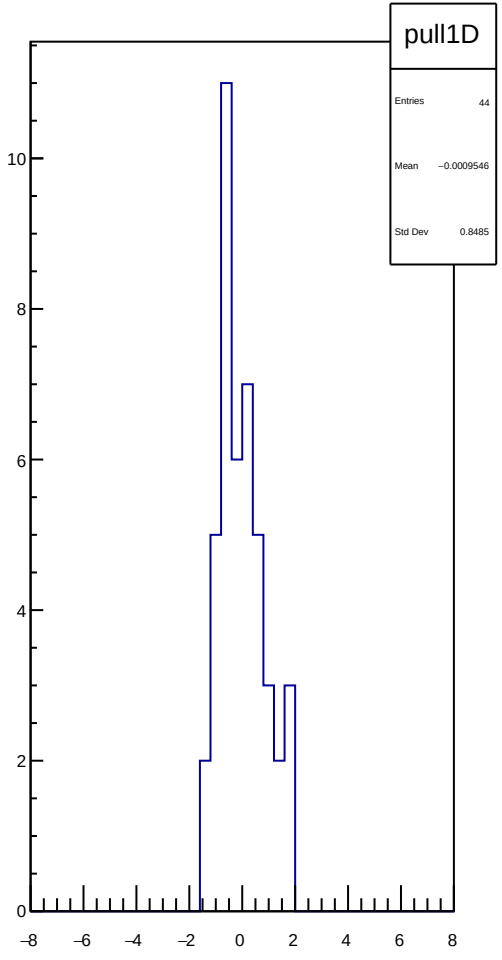

asym_sam_48_avg_correction_mean vs run
χ² / ndf 46.89 / 43
p0 −246.7 ± 2542
60000
40000
20000
0
−20000
−40000
−60000
−80000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −0.05662
Std Dev 15.43
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.0209
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

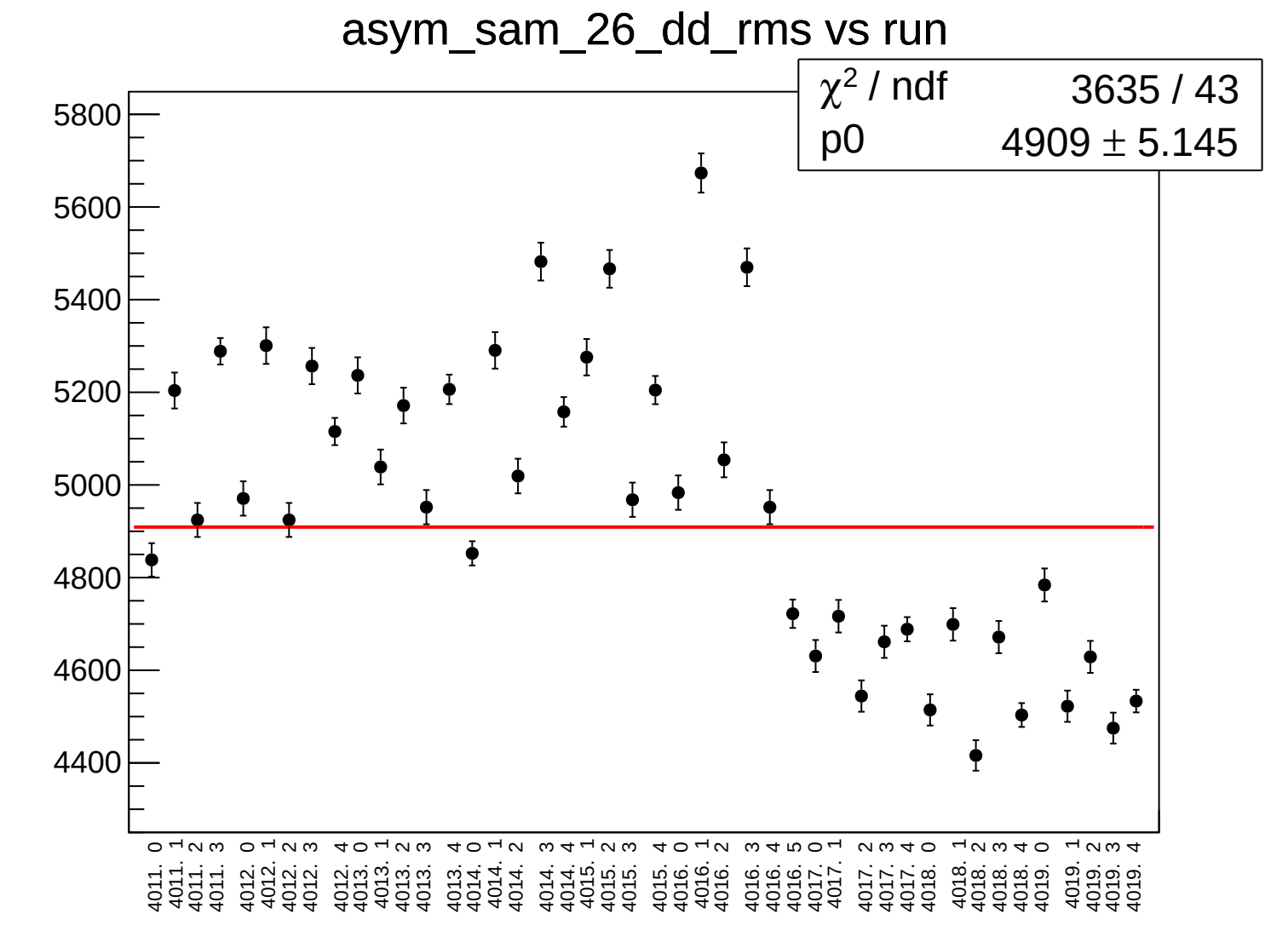

asym_sam_48_avg_correction_rms vs run
χ² / ndf 1075 / 43
p0 1717 ± 1.797
1900
1850
1800
1750
1700
1650
1600
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

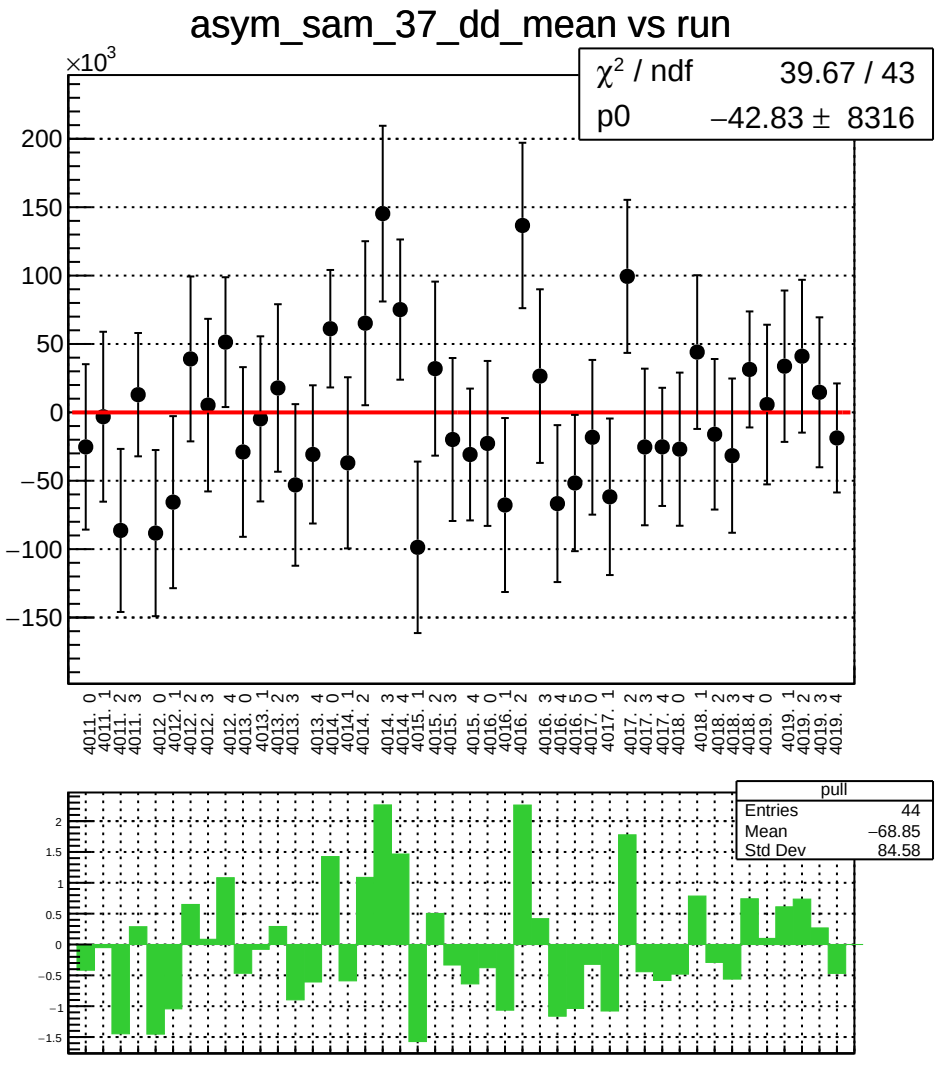

asym_sam_15_dd_mean vs run
χ² / ndf 54.99 / 43
p0 −712.6 ± 2149
80000
60000
40000
20000
0
−20000
−40000
−60000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 176.9
Std Dev 155.6
3
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.02232
Std Dev 1.118
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

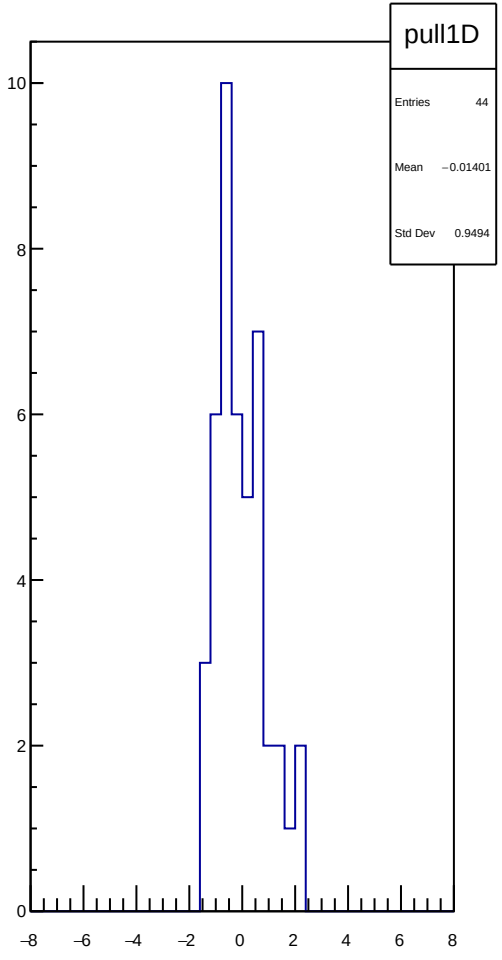

asym_sam_15_dd_rms vs run
χ² / ndf 1.335e+04 / 43
p0 1442 ± 1.52
2200
2000
1800
1600
1400
1200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

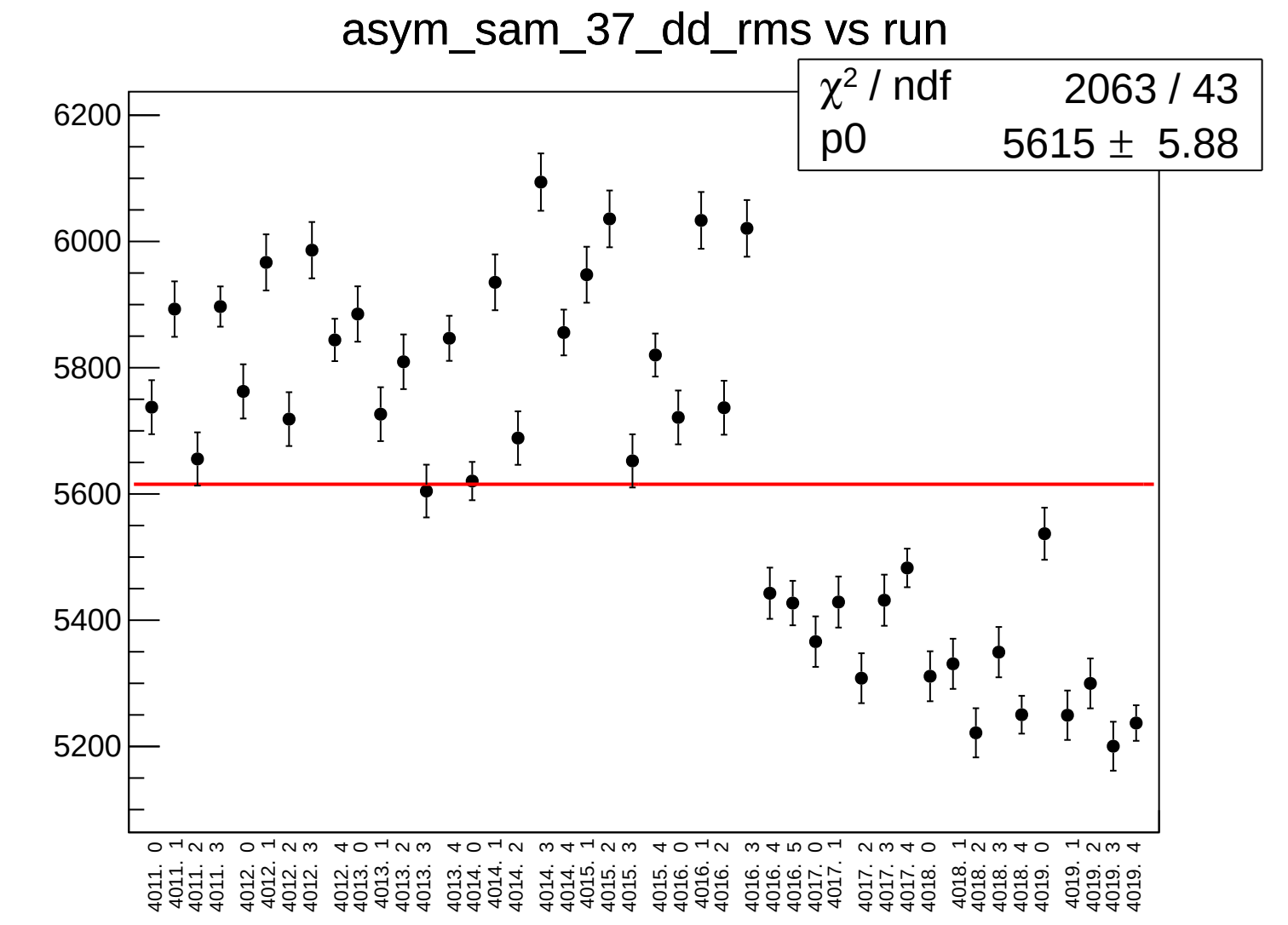

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 31.67 / 43
p0 −331.4 ± 7276
150
100
50
0
−50
−100
−150
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −2511
Std Dev 2529
2
1.5
1
0.5
0
−0.5
−1
−1.5

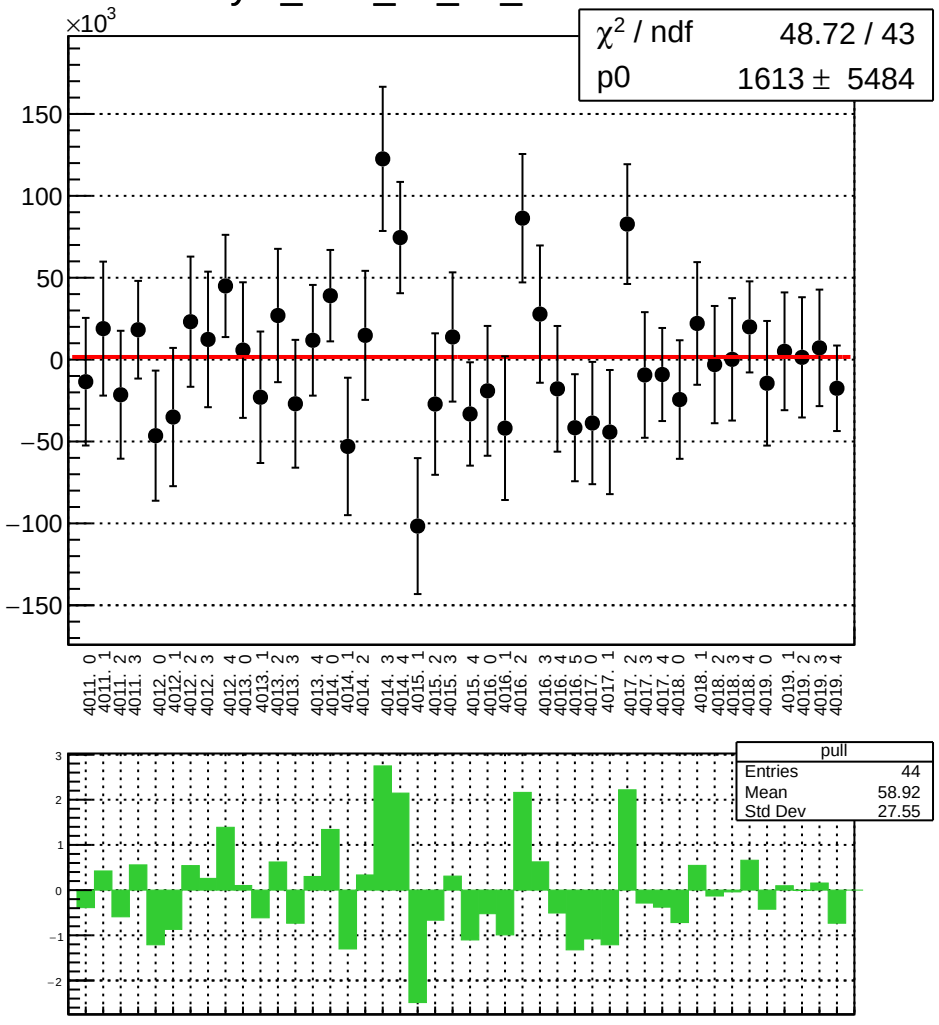

pull1D
Entries 44
Mean −0.0009546
Std Dev 0.8485
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

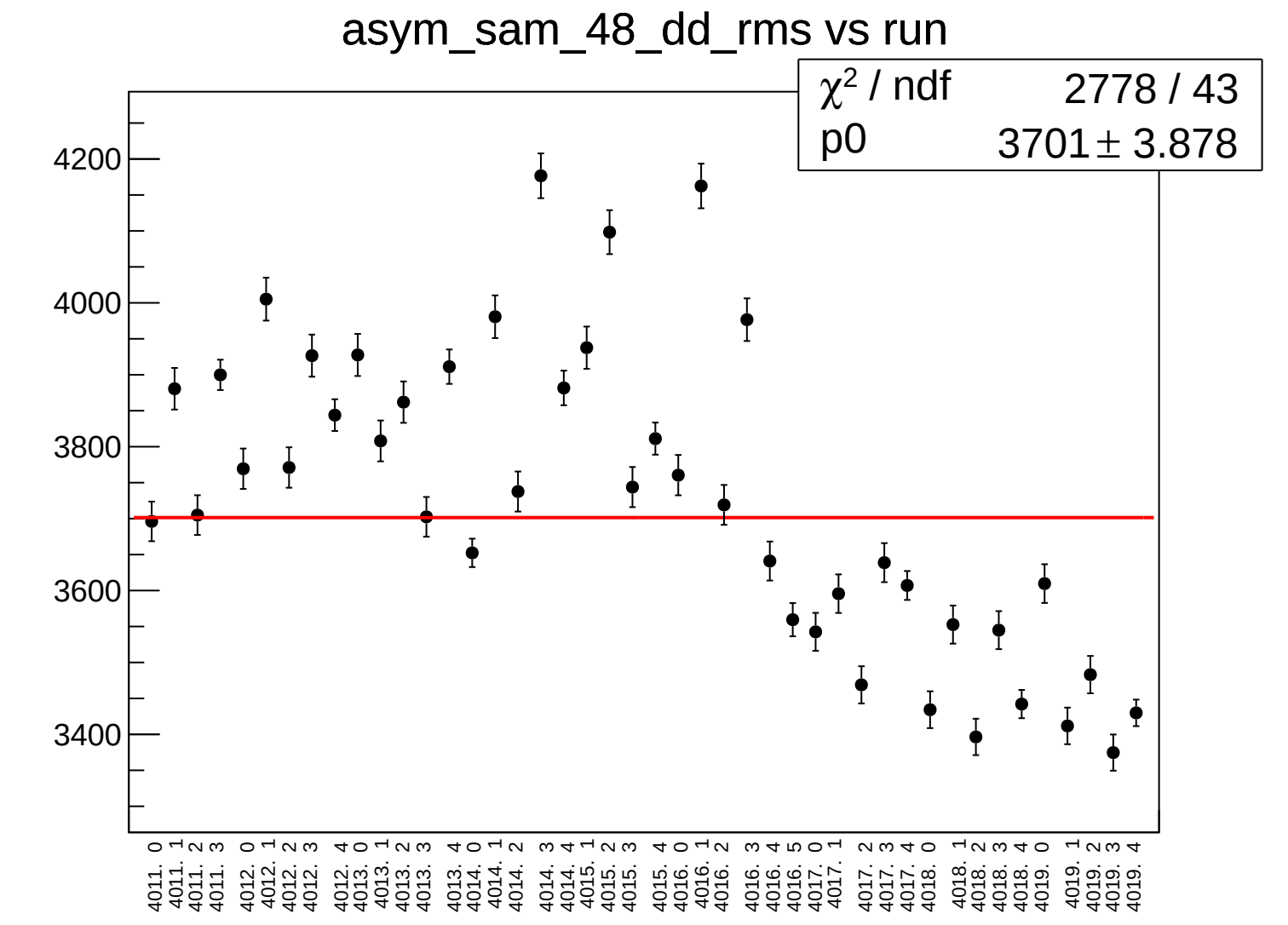

asym_sam_26_dd_rms vs run
χ² / ndf 3635 / 43
p0 4909 ± 5.145
5800
5600
5400
5200
5000
4800
4600
4400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4


asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 39.67 / 43
p0 −42.83 ± 8316
200
150
100
50
0
−50
−100
−150
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −68.85
Std Dev 84.58
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 44
Mean −0.01401
Std Dev 0.9494
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_rms vs run
χ² / ndf 2063 / 43
p0 5615 ± 5.88
6200
6000
5800
5600
5400
5200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4


asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 48.72 / 43
p0 1613 ± 5484
150
100
50
0
−50
−100
−150
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 58.92
Std Dev 27.55
3
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.01729
Std Dev 1.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_dd_rms vs run
χ^2 / ndf 2778 / 43
p0 3701 ± 3.878
4200
4000
3800
3600
3400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
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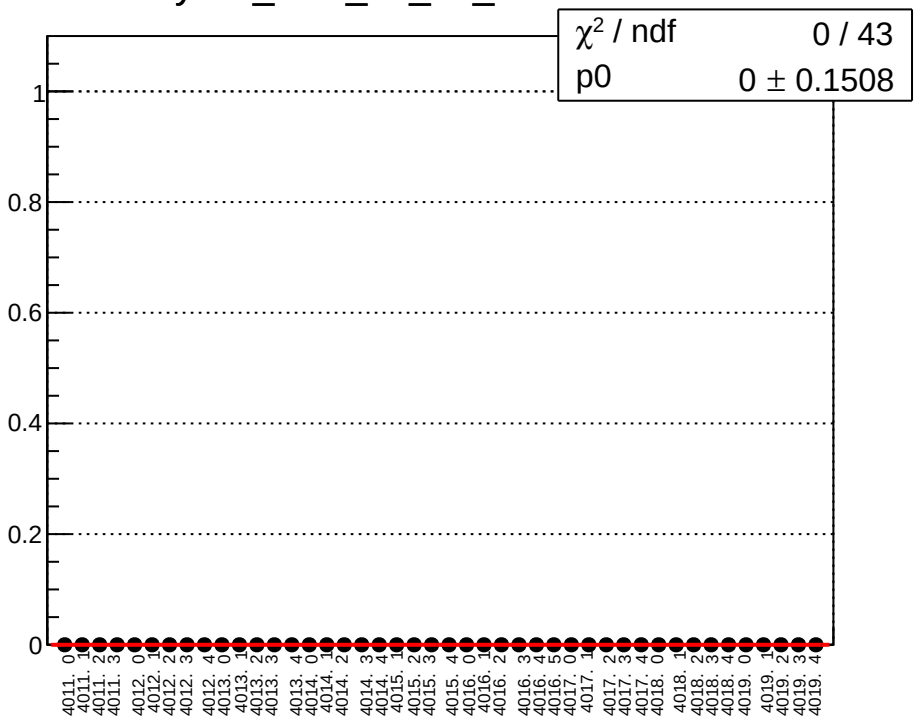
yield_sam_15_dd_mean vs run
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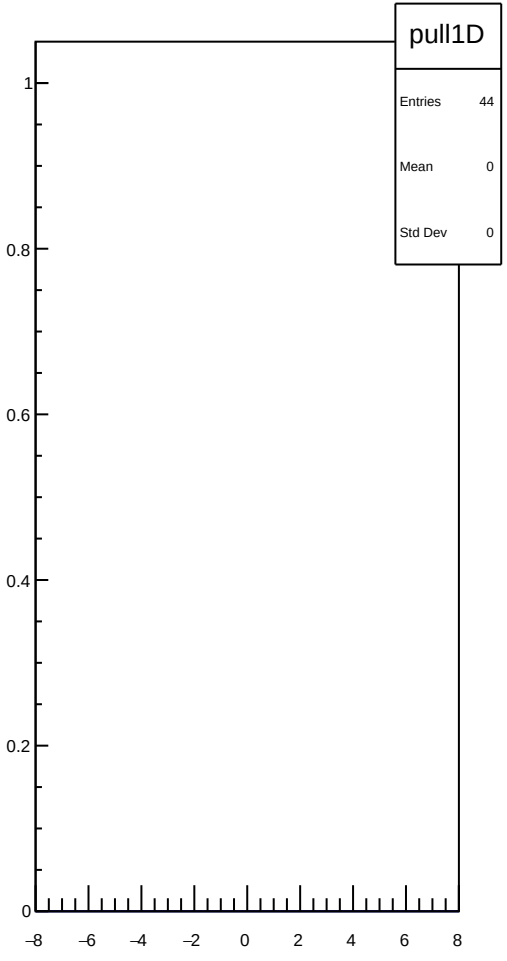
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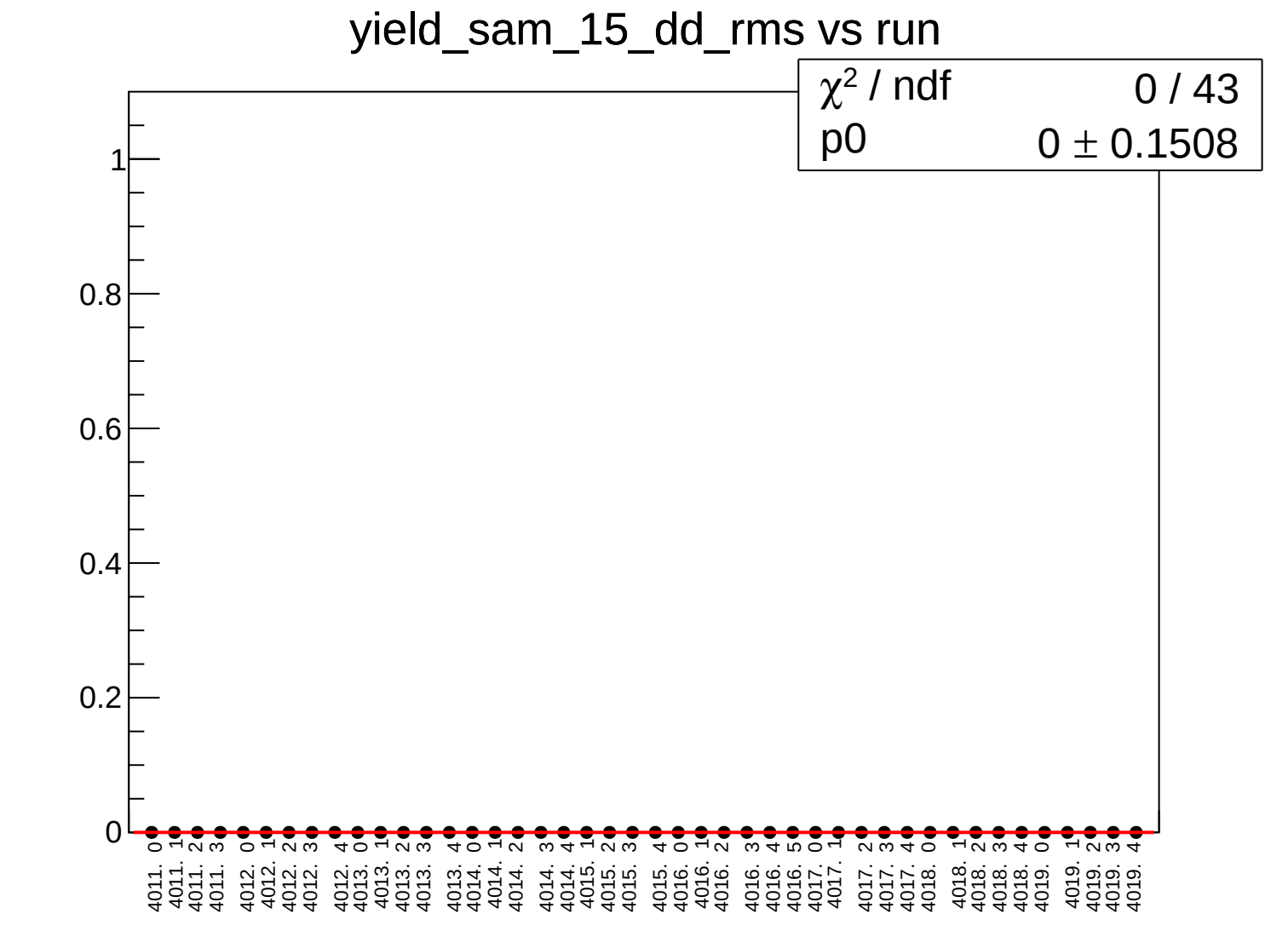
yield_sam_15_dd_rms vs run
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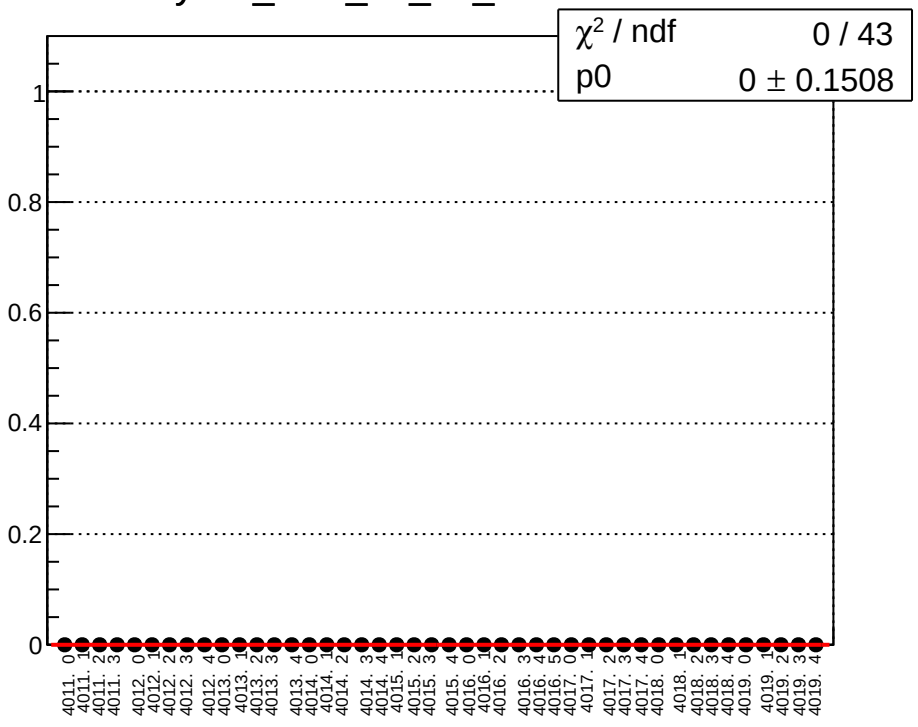
yield_sam_26_dd_mean vs run
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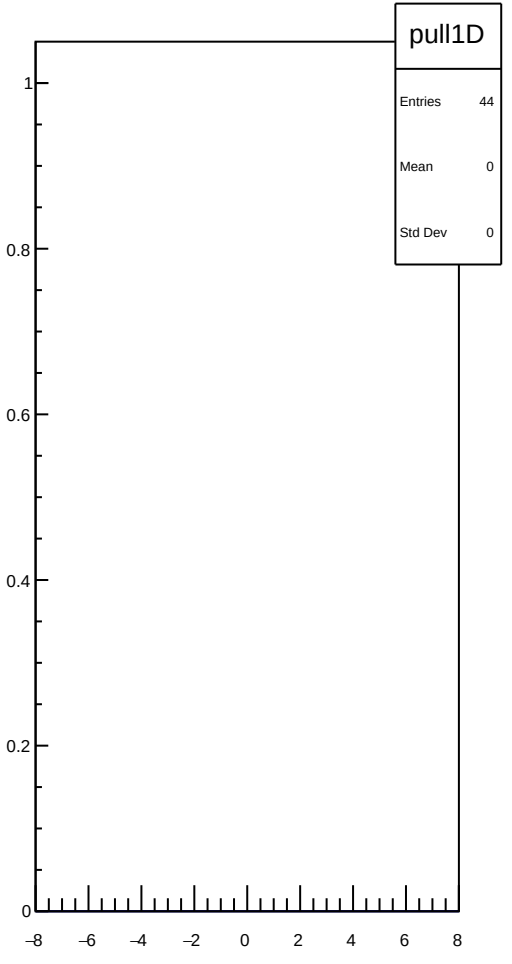
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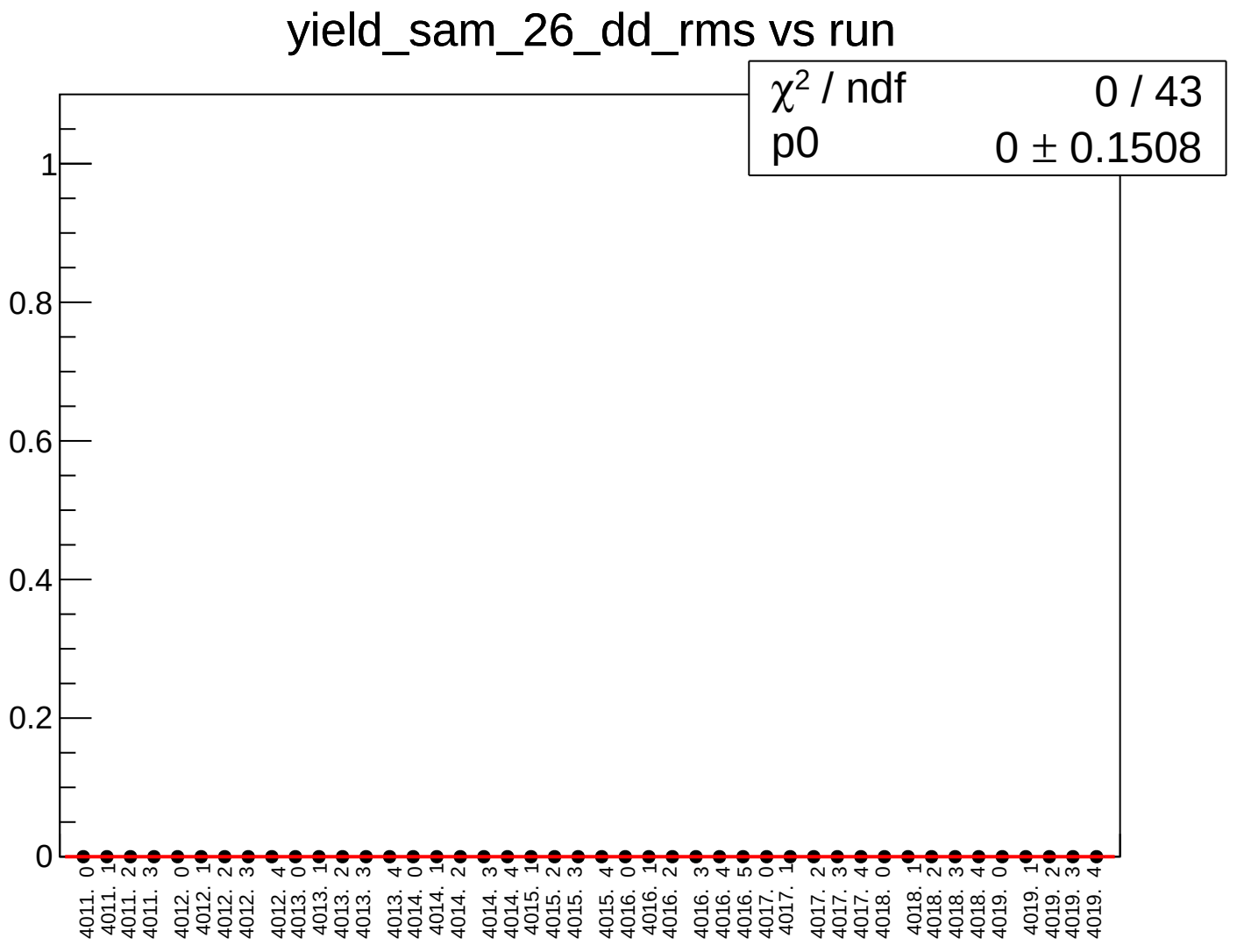
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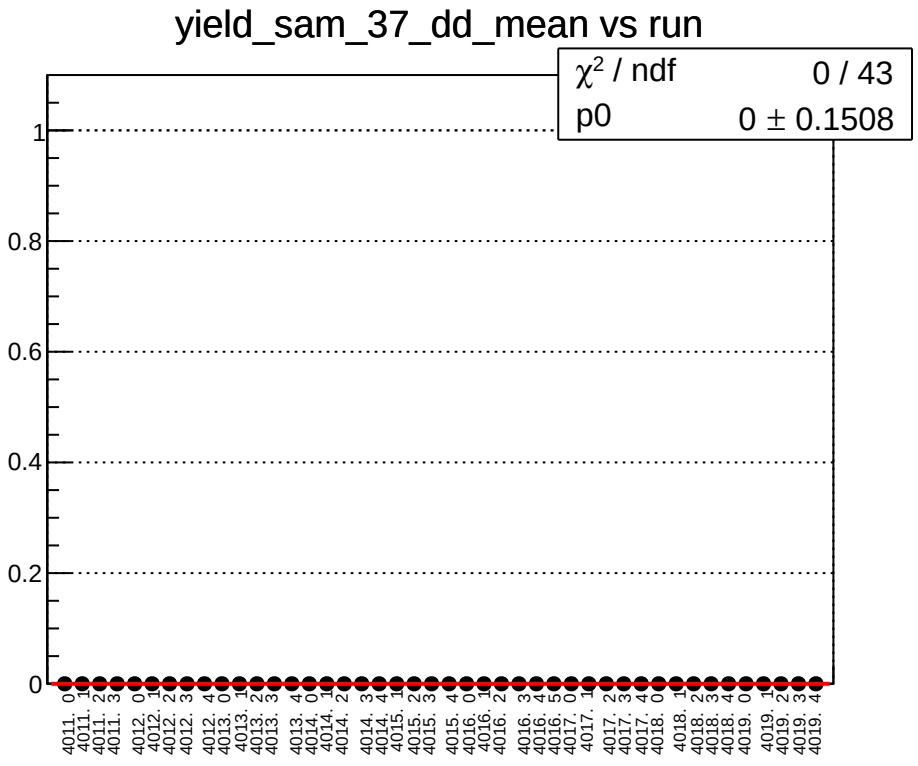
yield_sam_37_dd_mean vs run
χ² / ndf 0 / 43
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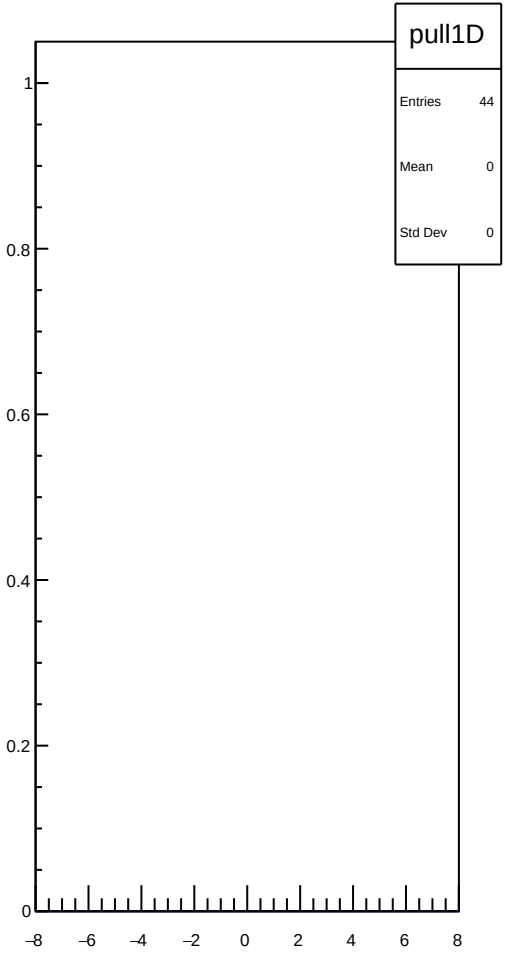
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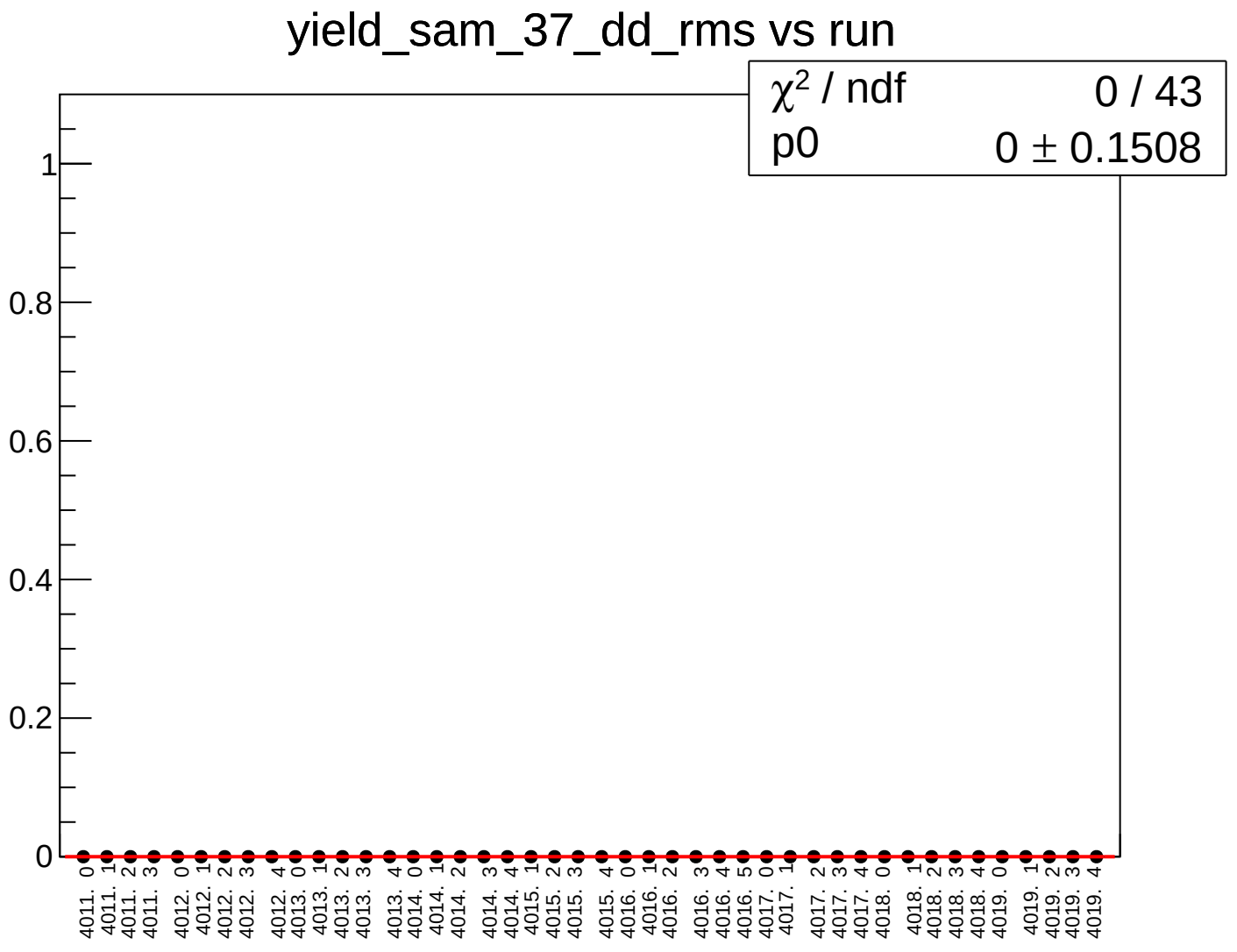
yield_sam_37_dd_rms vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
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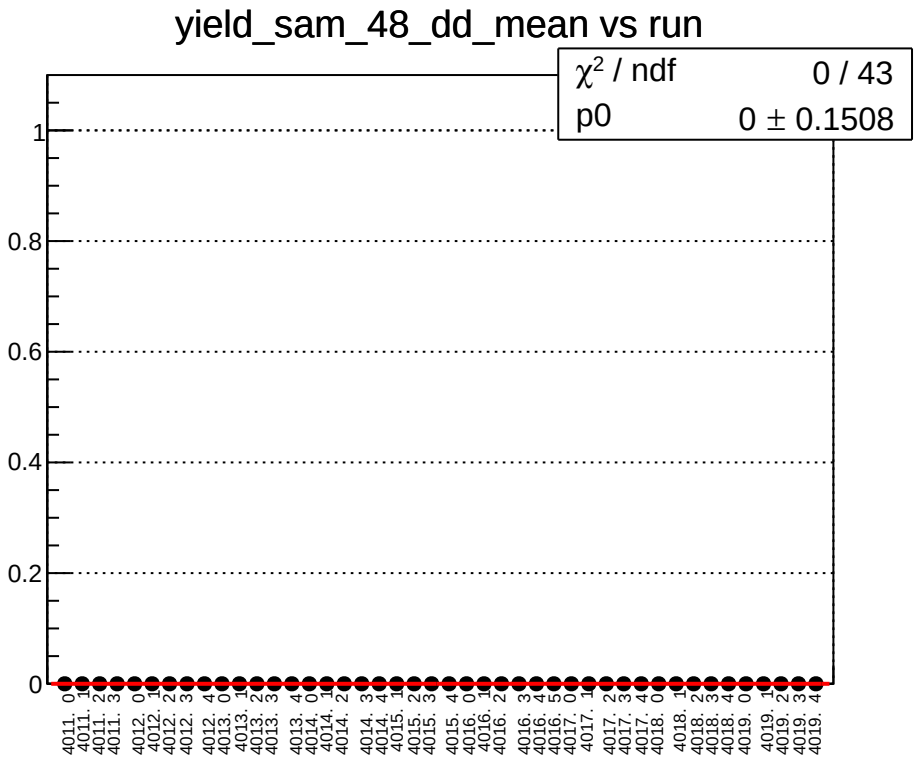
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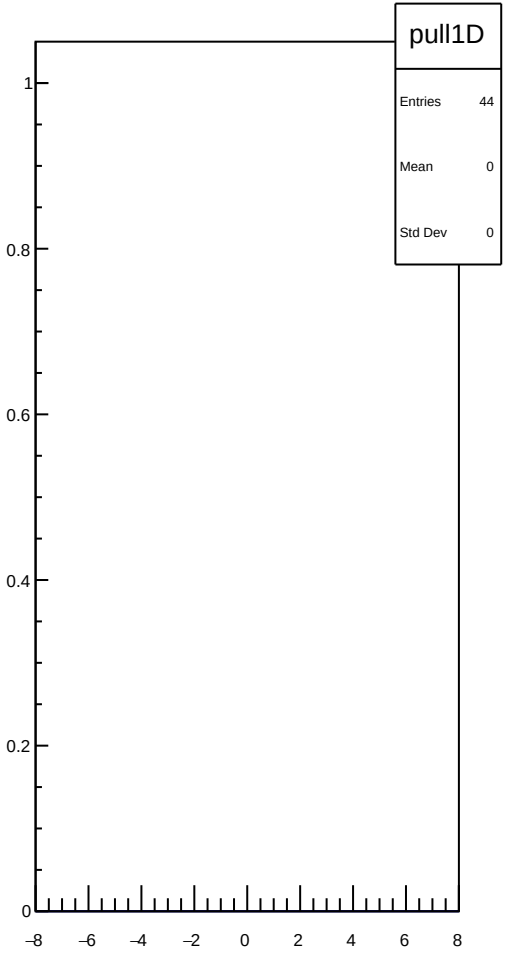
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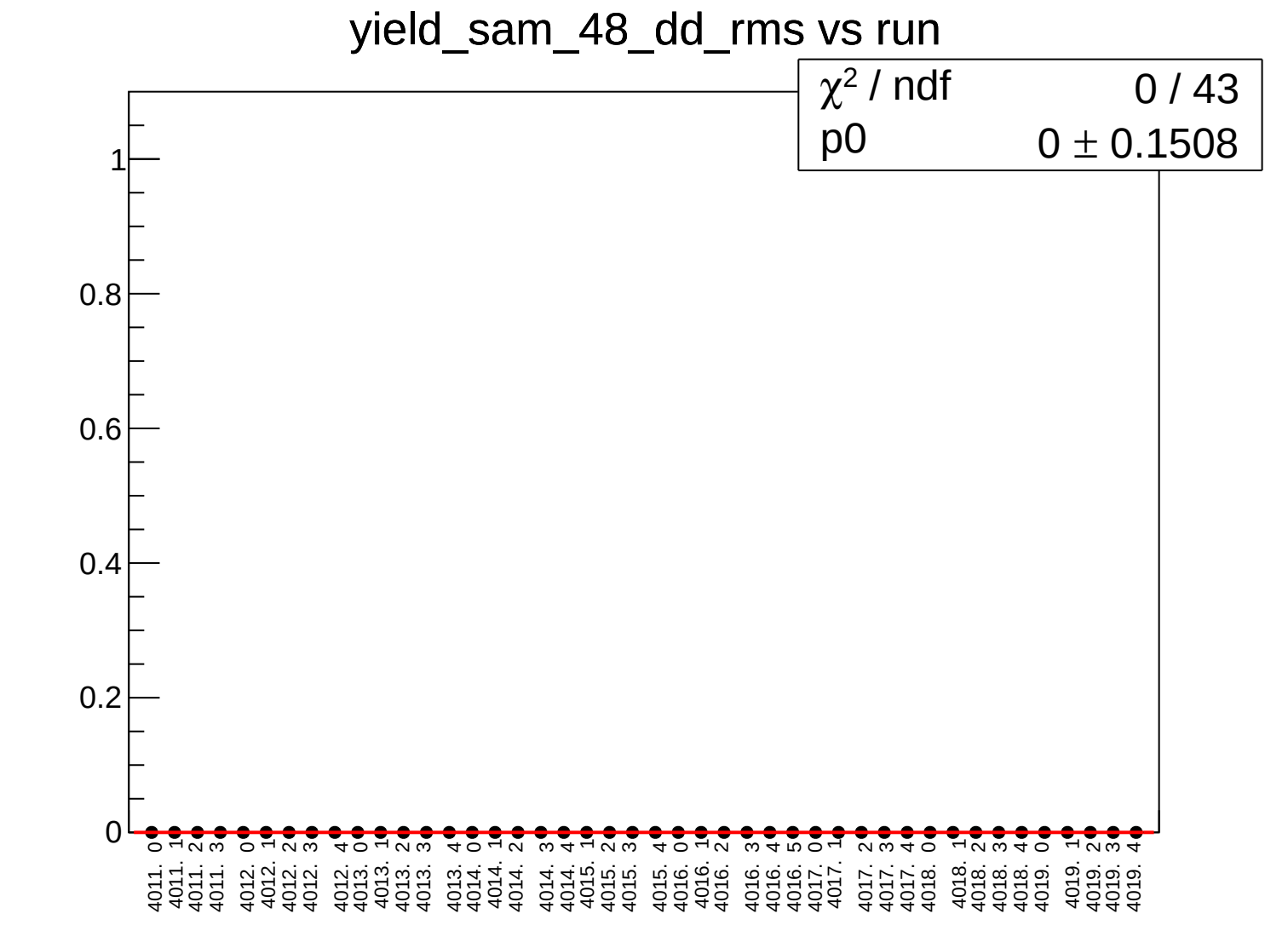
yield_sam_48_dd_rms vs run
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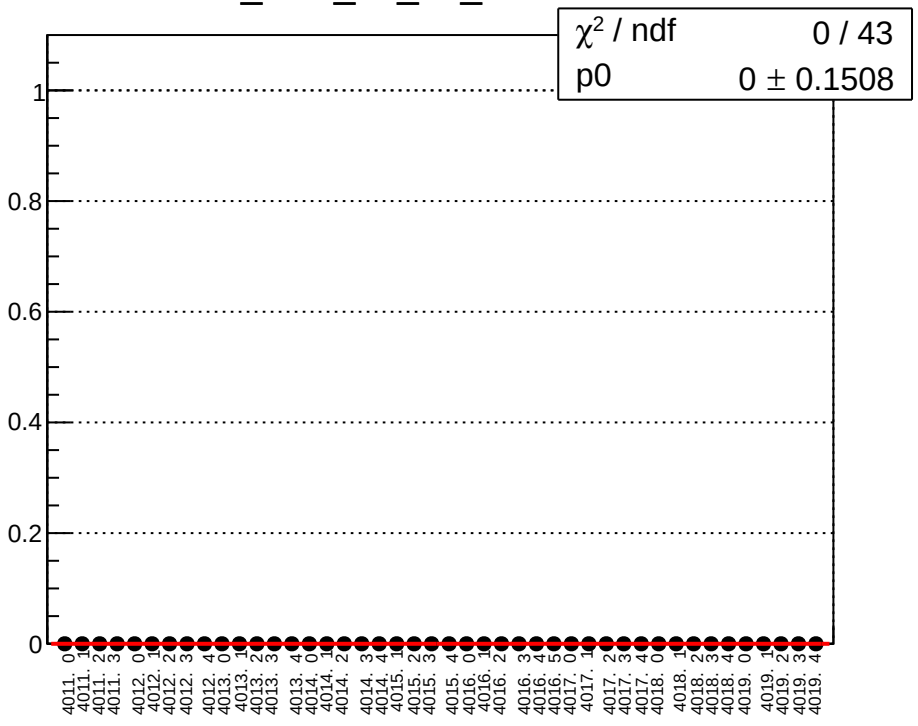
cor_sam_15_dd_mean vs run
χ² / ndf 0 / 43
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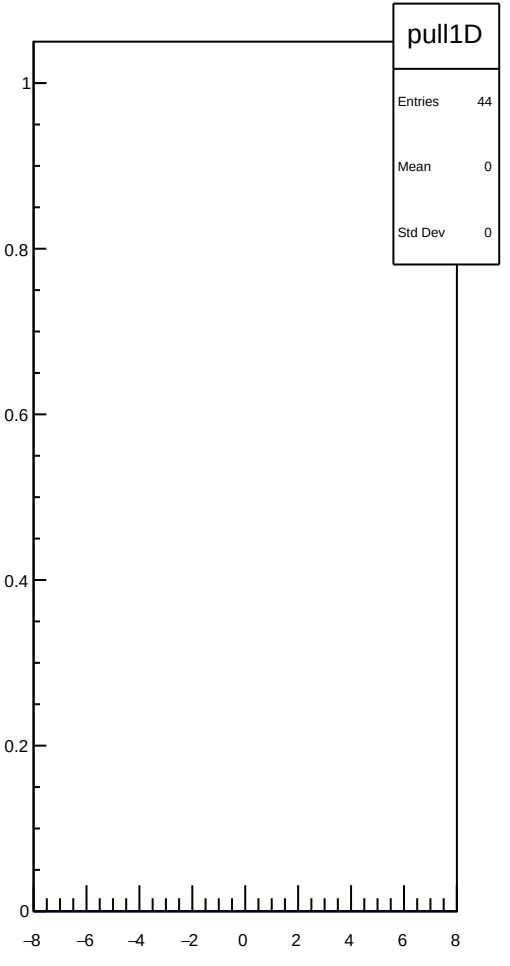
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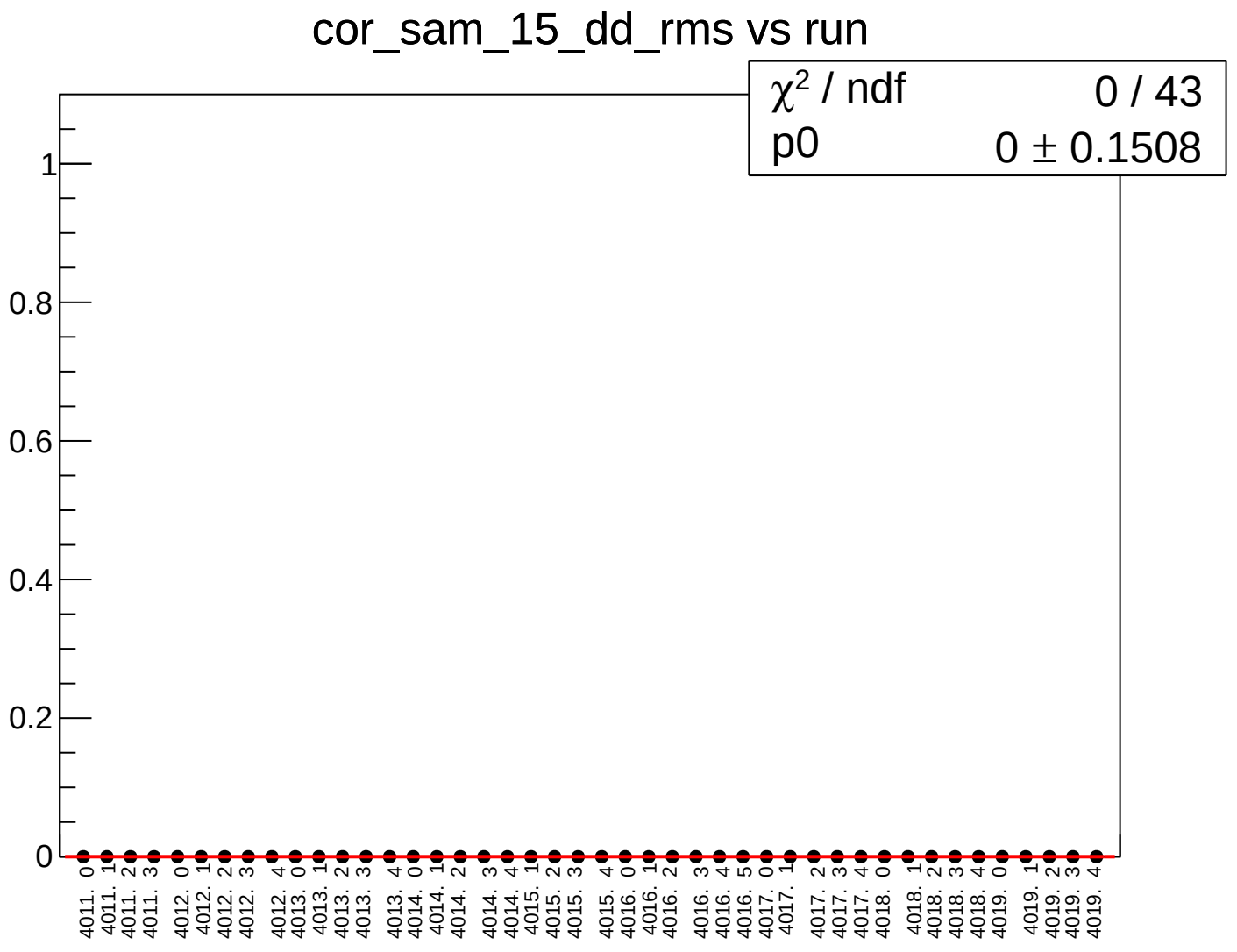
cor_sam_15_dd_rms vs run
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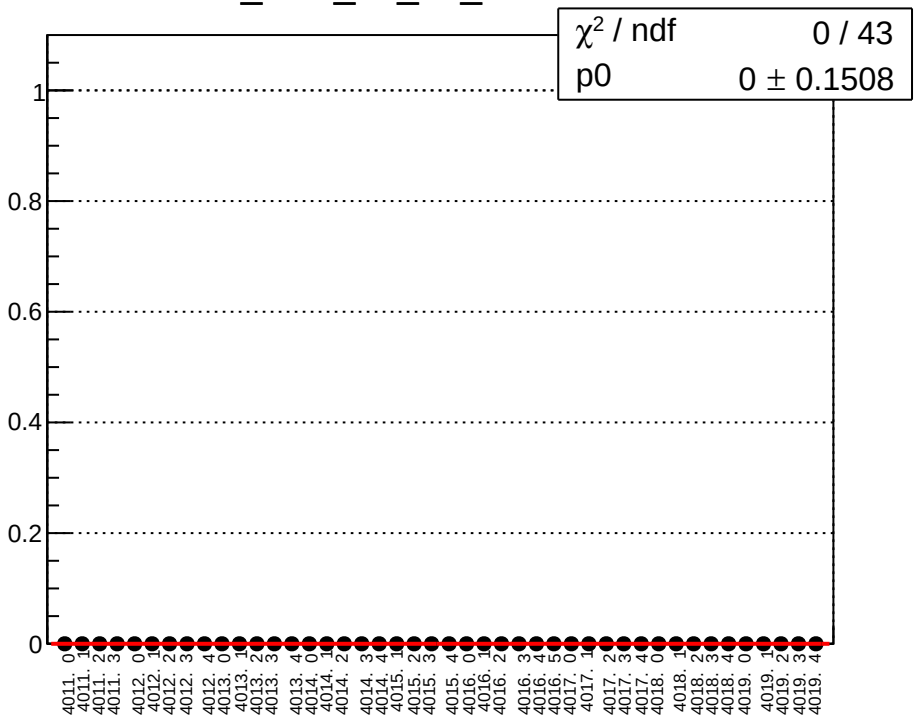
cor_sam_26_dd_mean vs run
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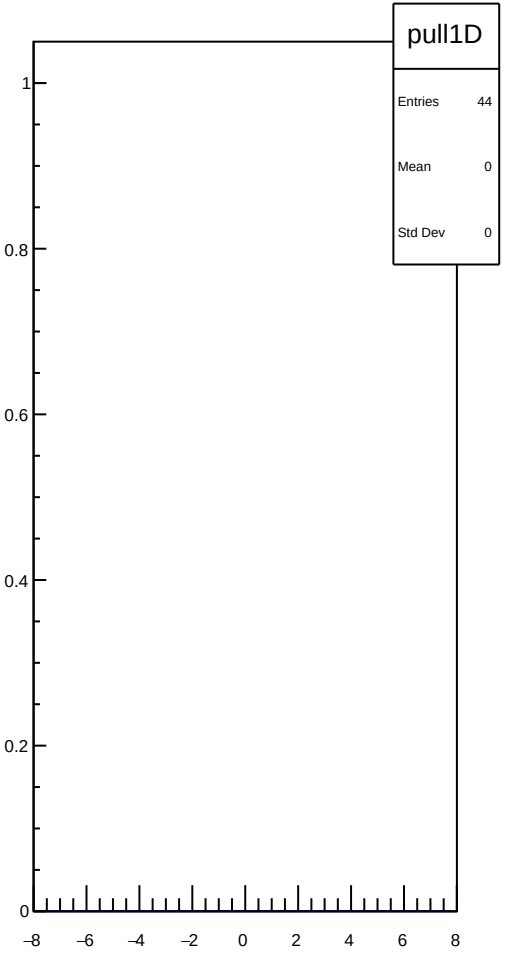
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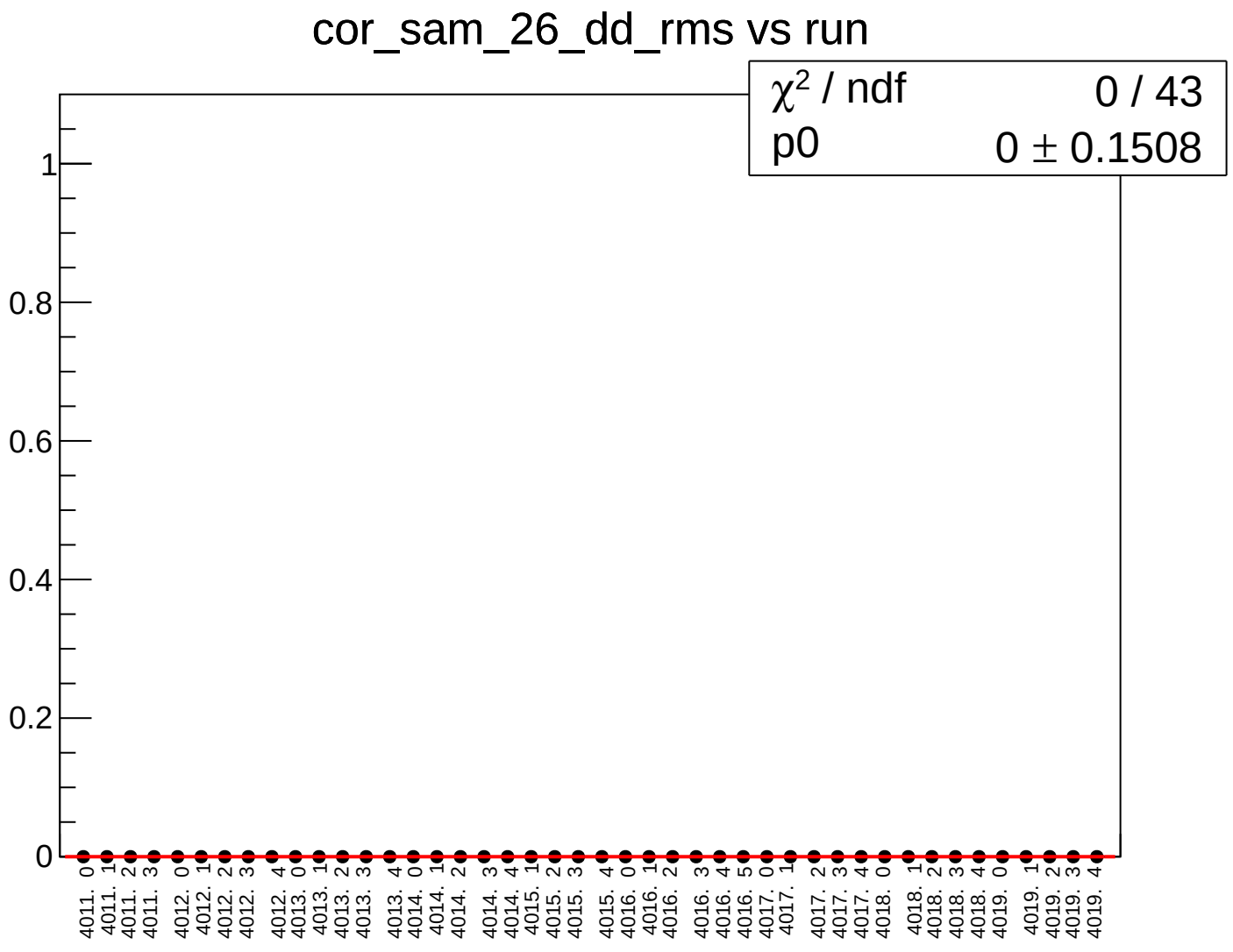
cor_sam_26_dd_rms vs run
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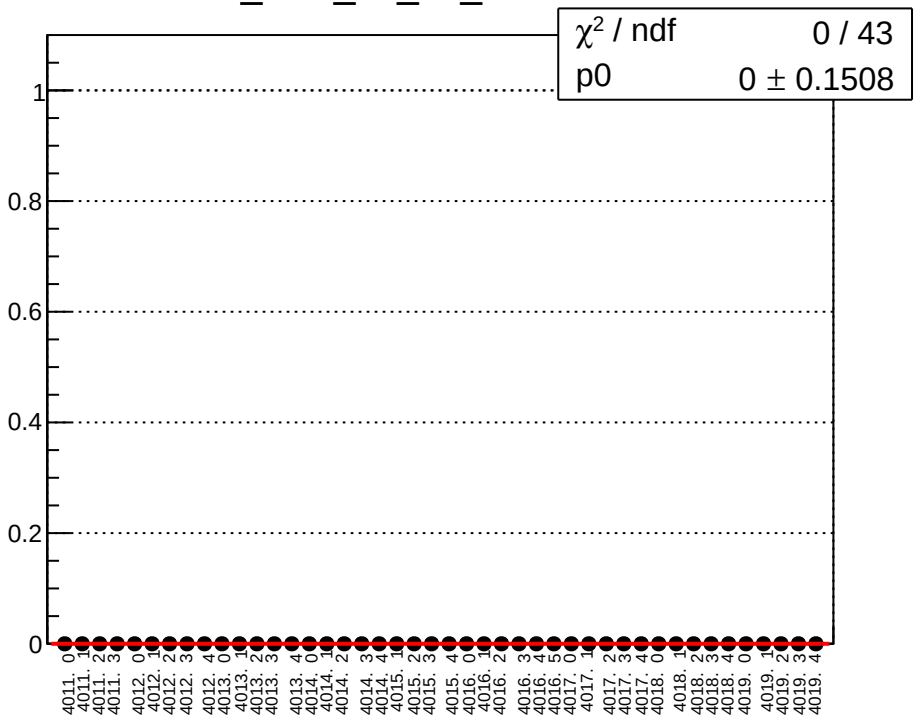
cor_sam_37_dd_mean vs run
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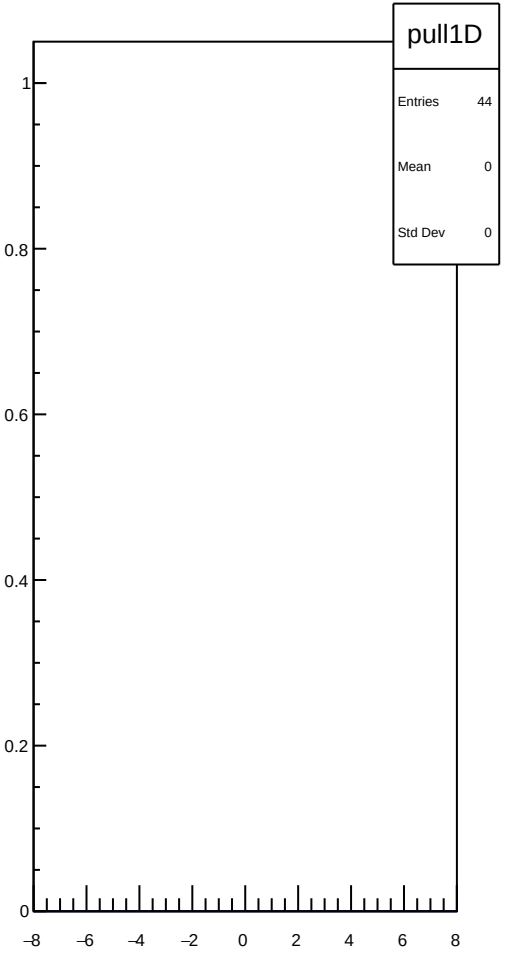
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Std Dev 0
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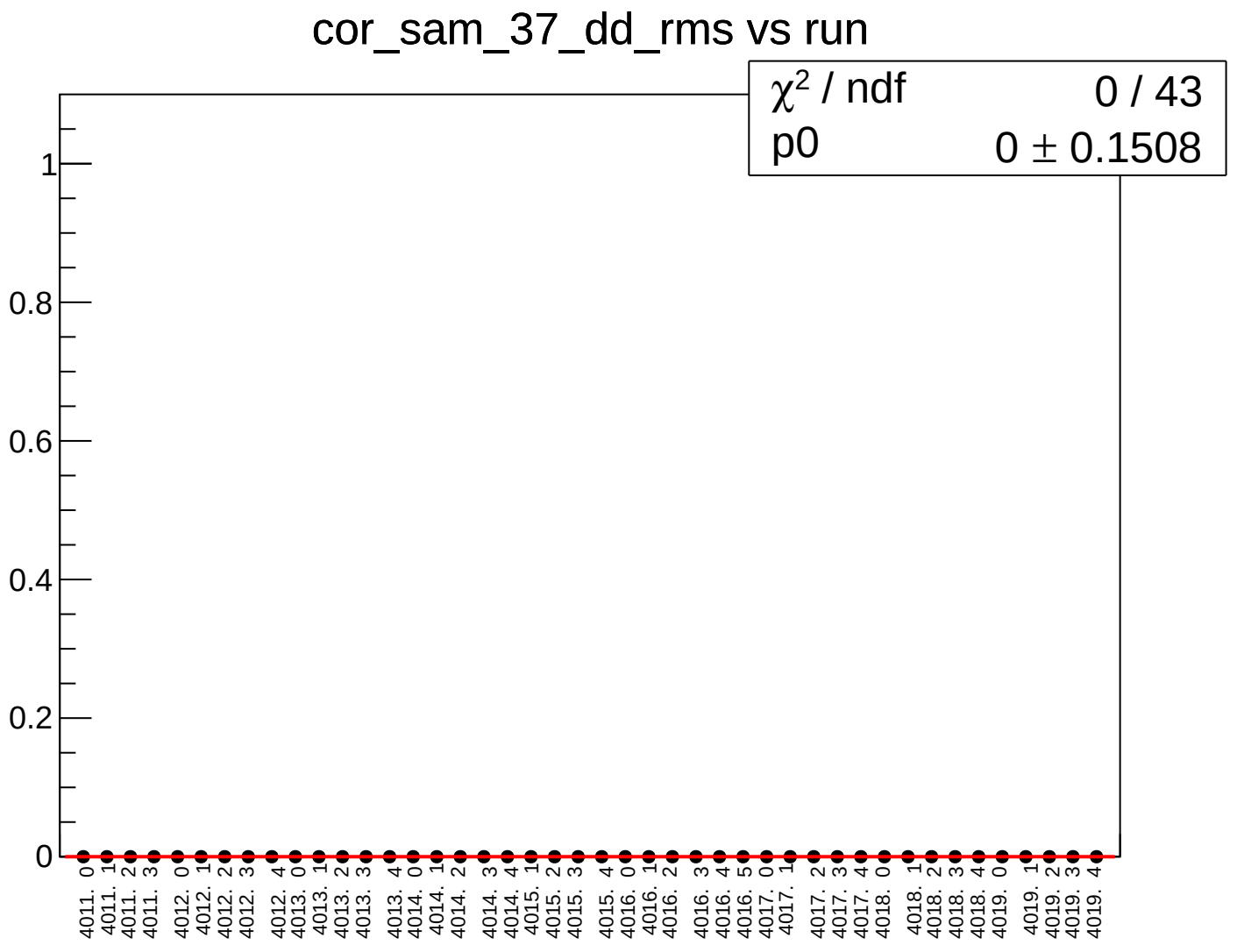
cor_sam_37_dd_rms vs run
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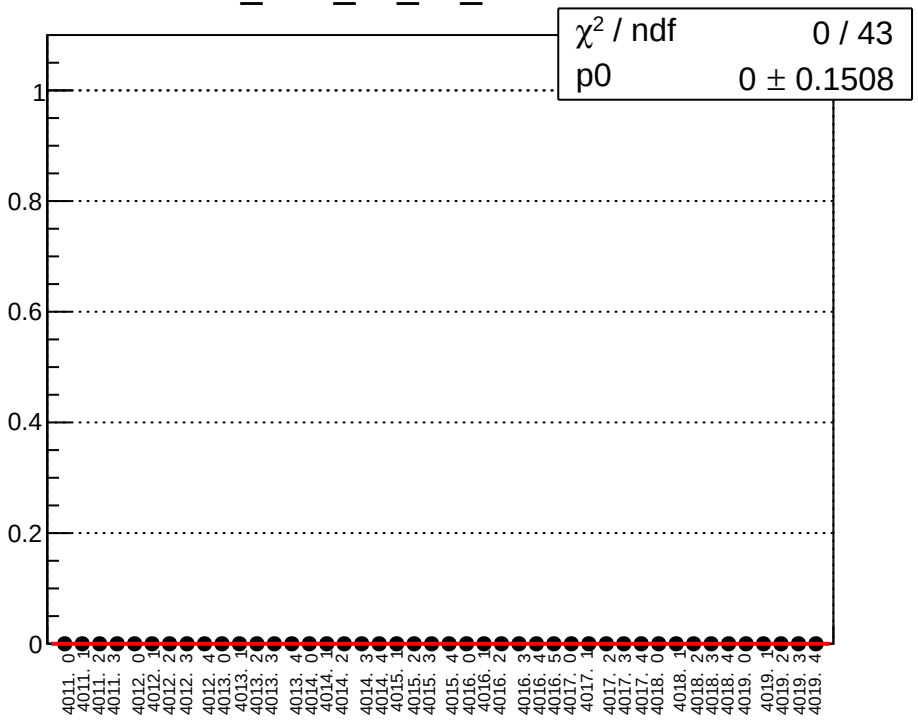
cor_sam_48_dd_mean vs run
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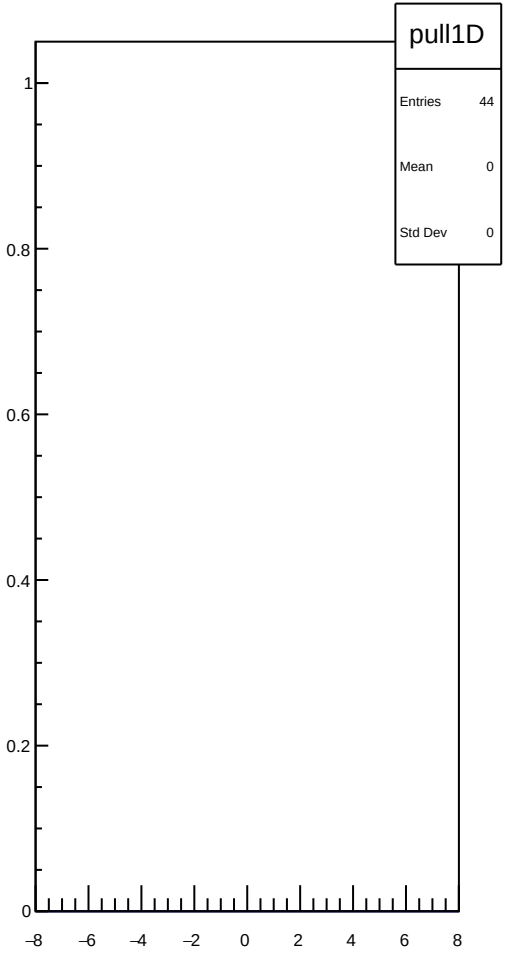
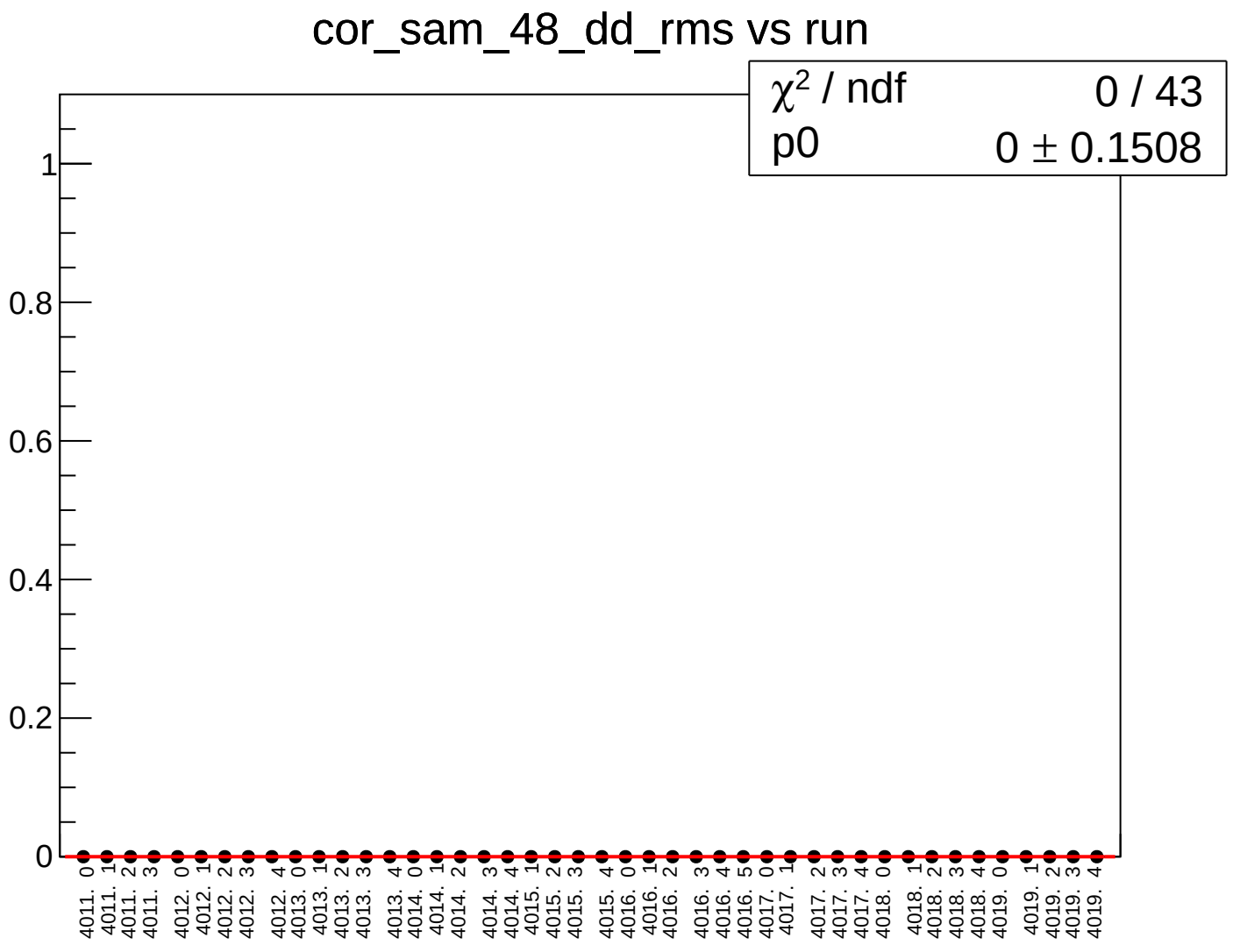
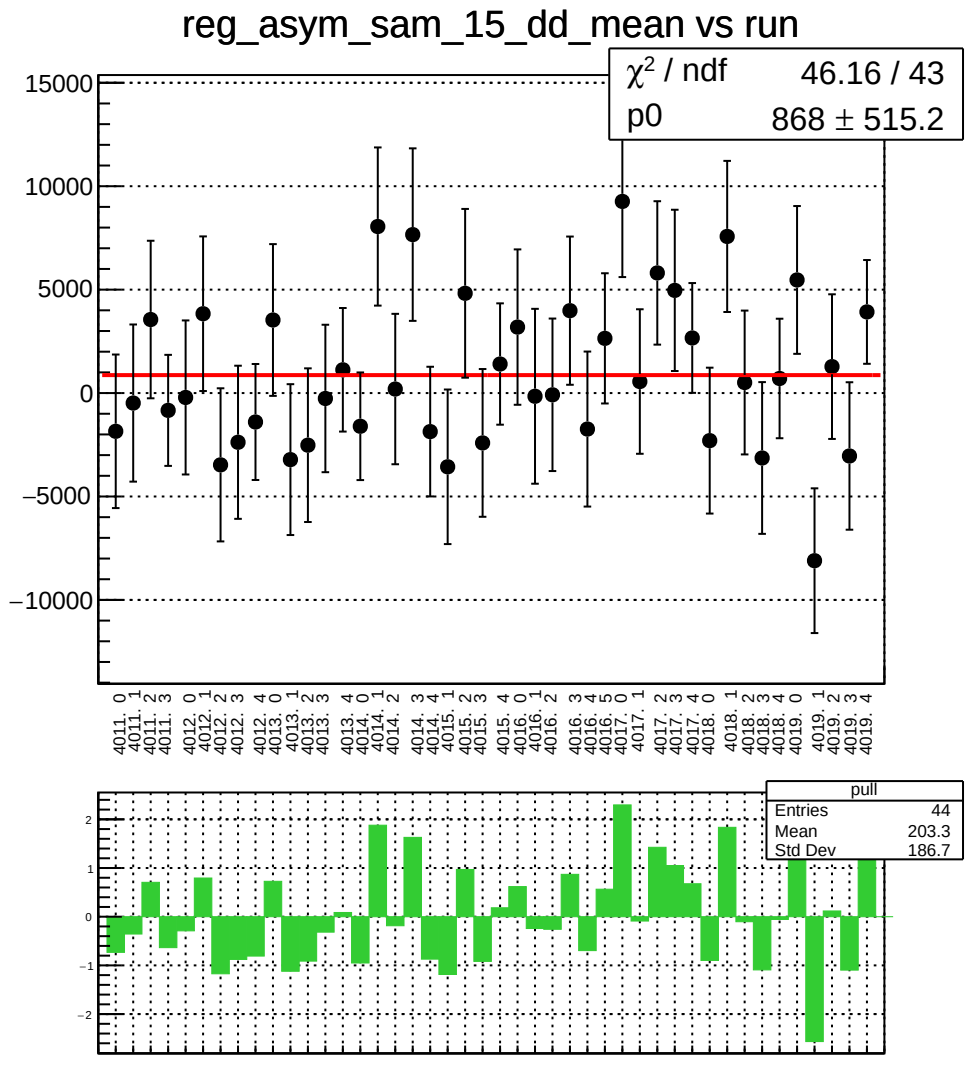
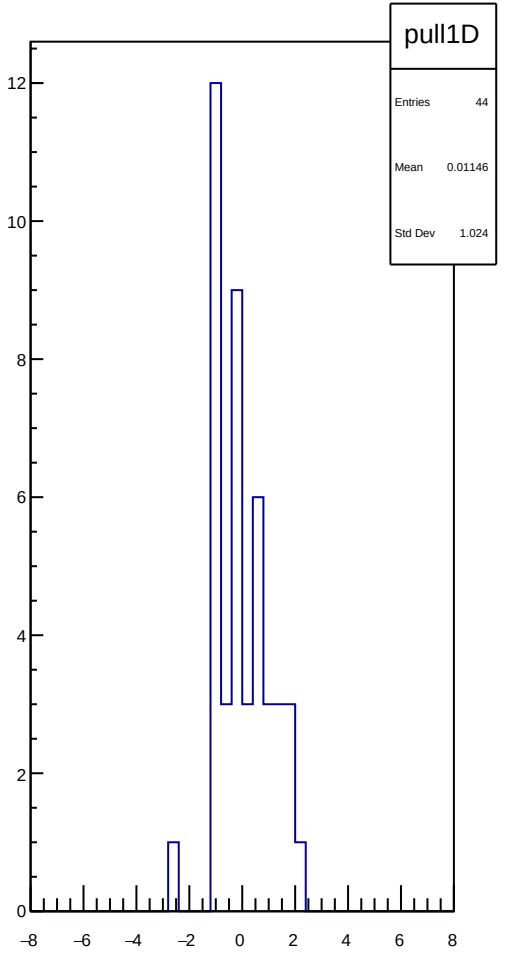
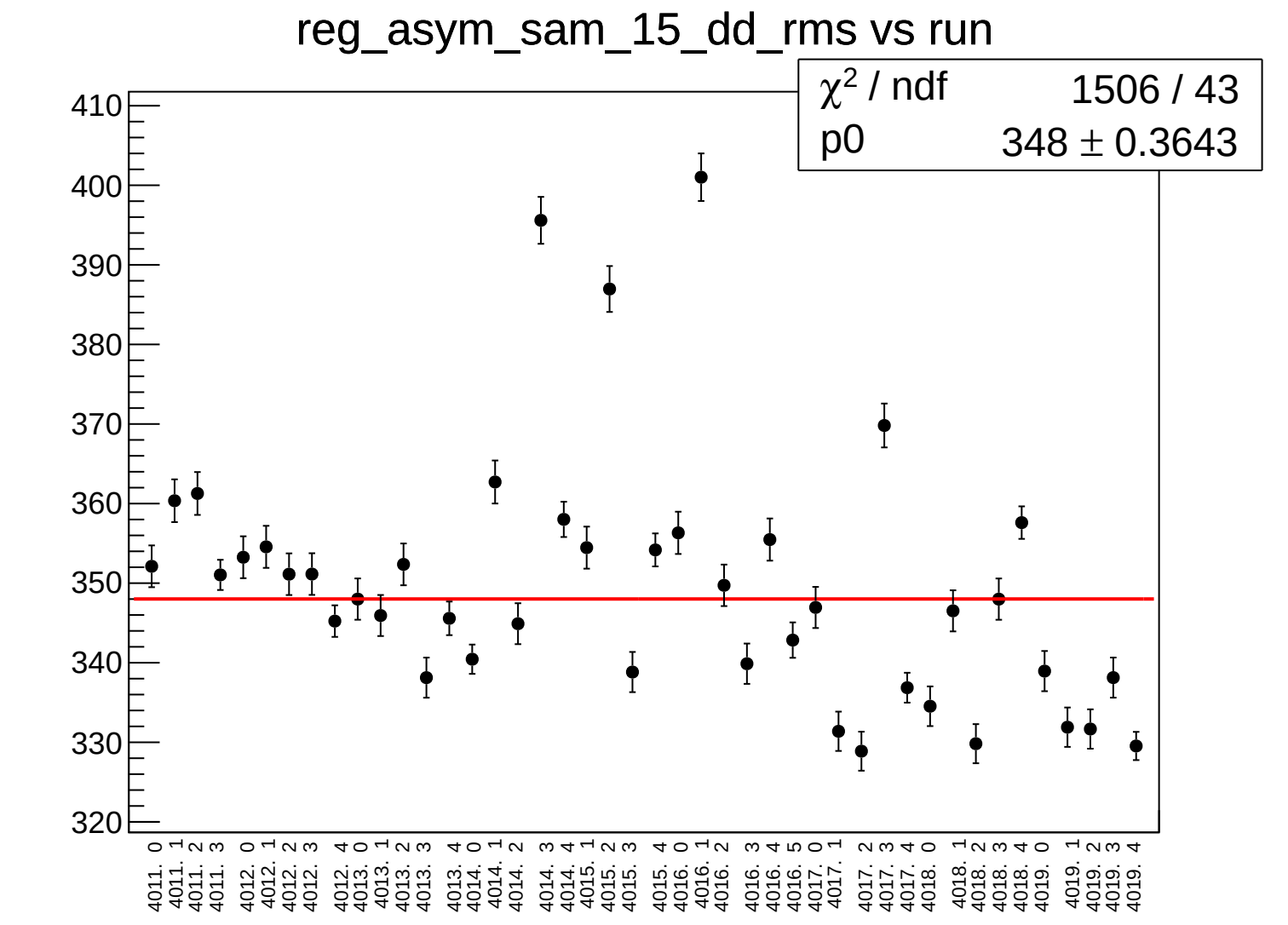
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

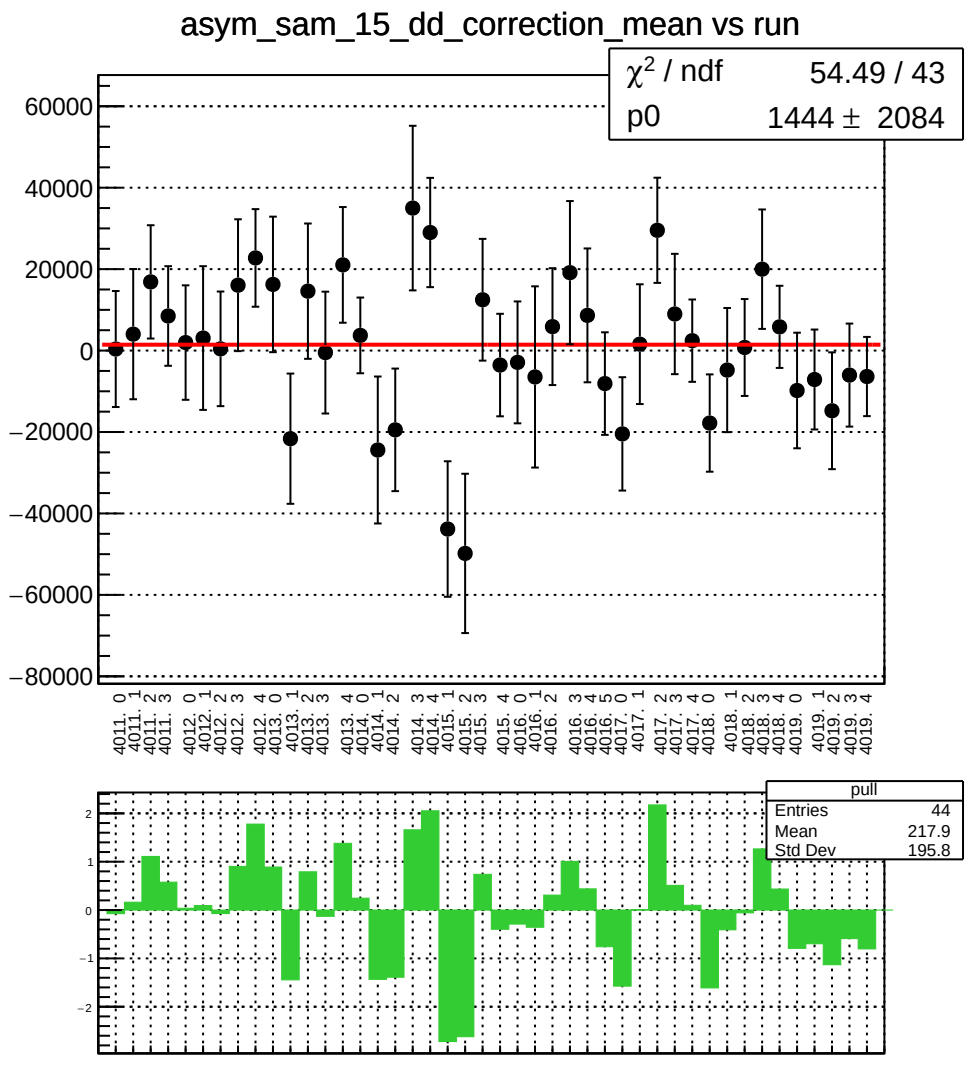

pull1D
Entries 44
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

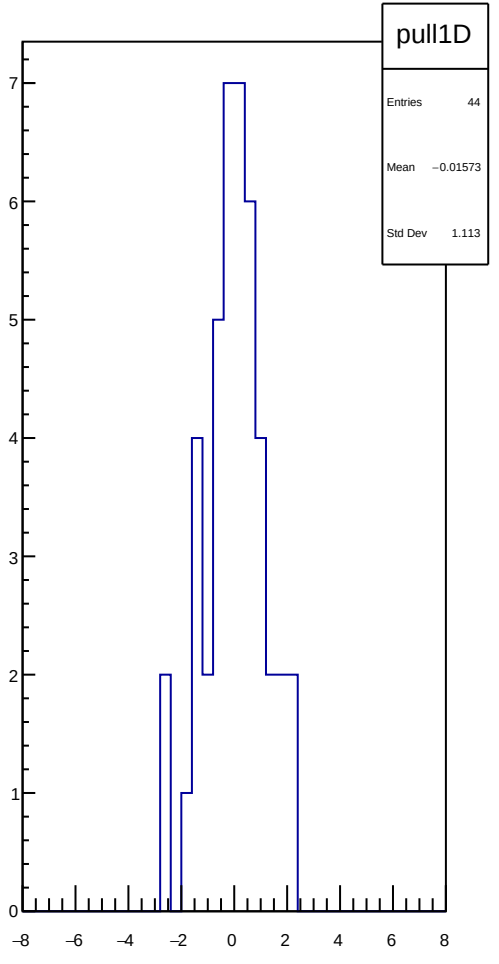

cor_sam_48_dd_rms vs run
χ² / ndf 0 / 43
p0 0 ± 0.1508
1
0.8
0.6
0.4
0.2
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

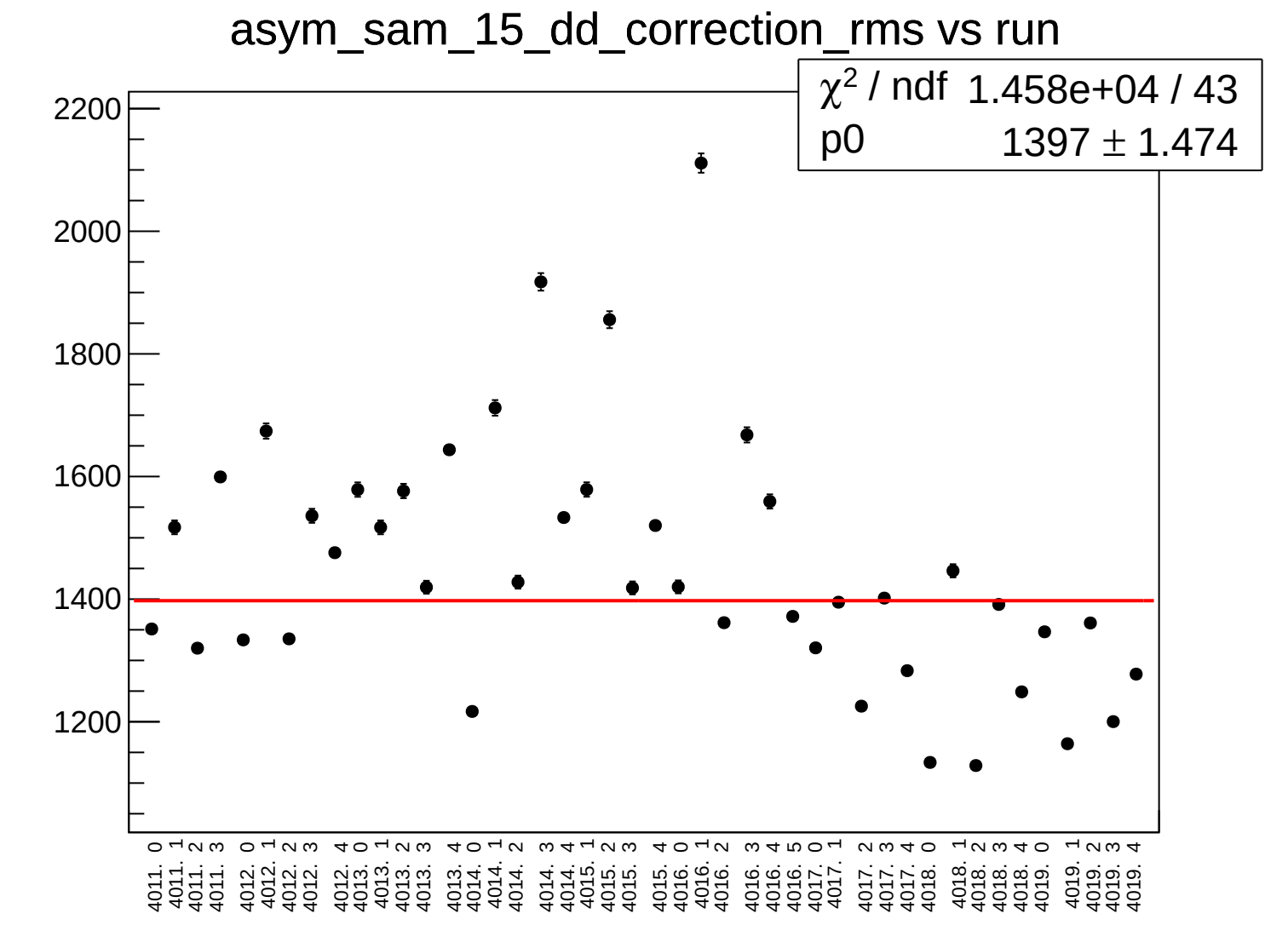

reg_asym_sam_15_dd_mean vs run
χ² / ndf 46.16 / 43
p0 868 ± 515.2
15000
10000
5000
0
−5000
−10000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 203.3
Std Dev 186.7
2
1
0
−1
−2

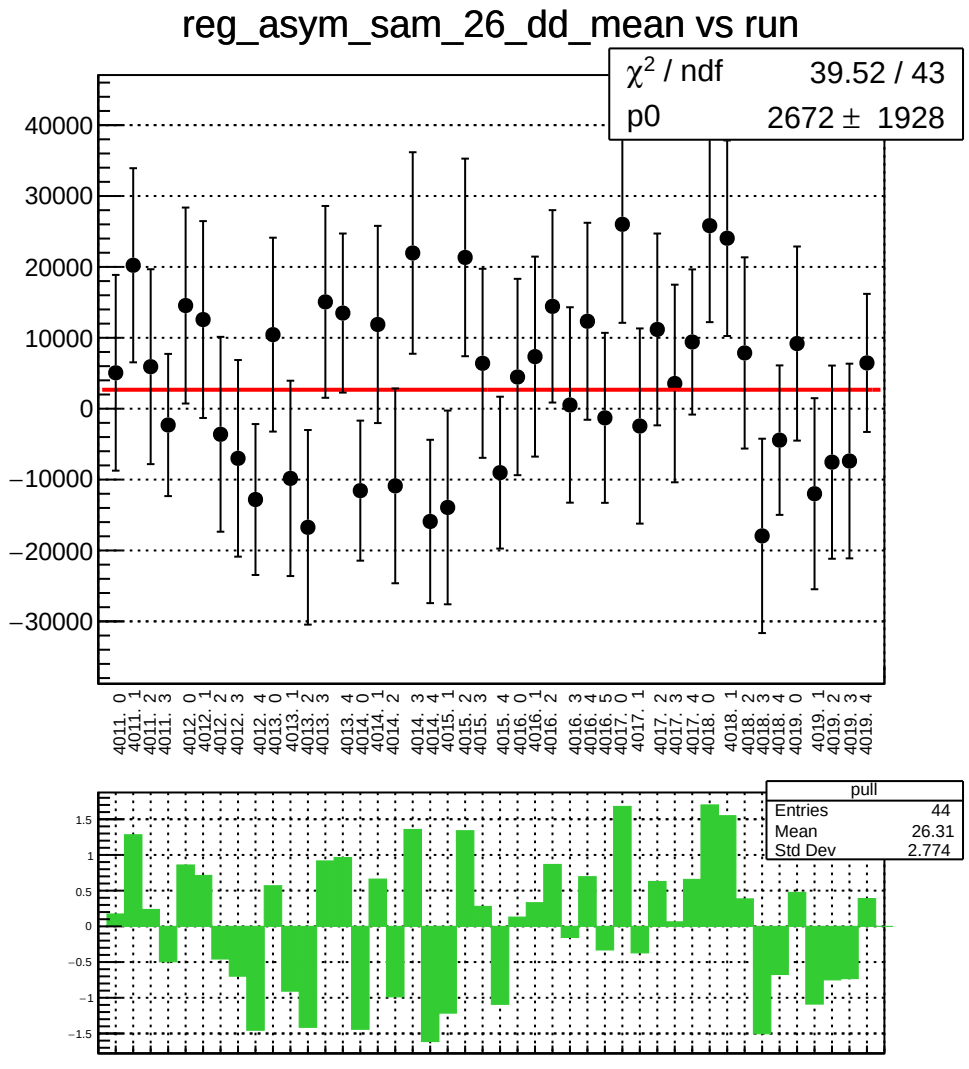

pull1D
Entries 44
Mean 0.01146
Std Dev 1.024
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

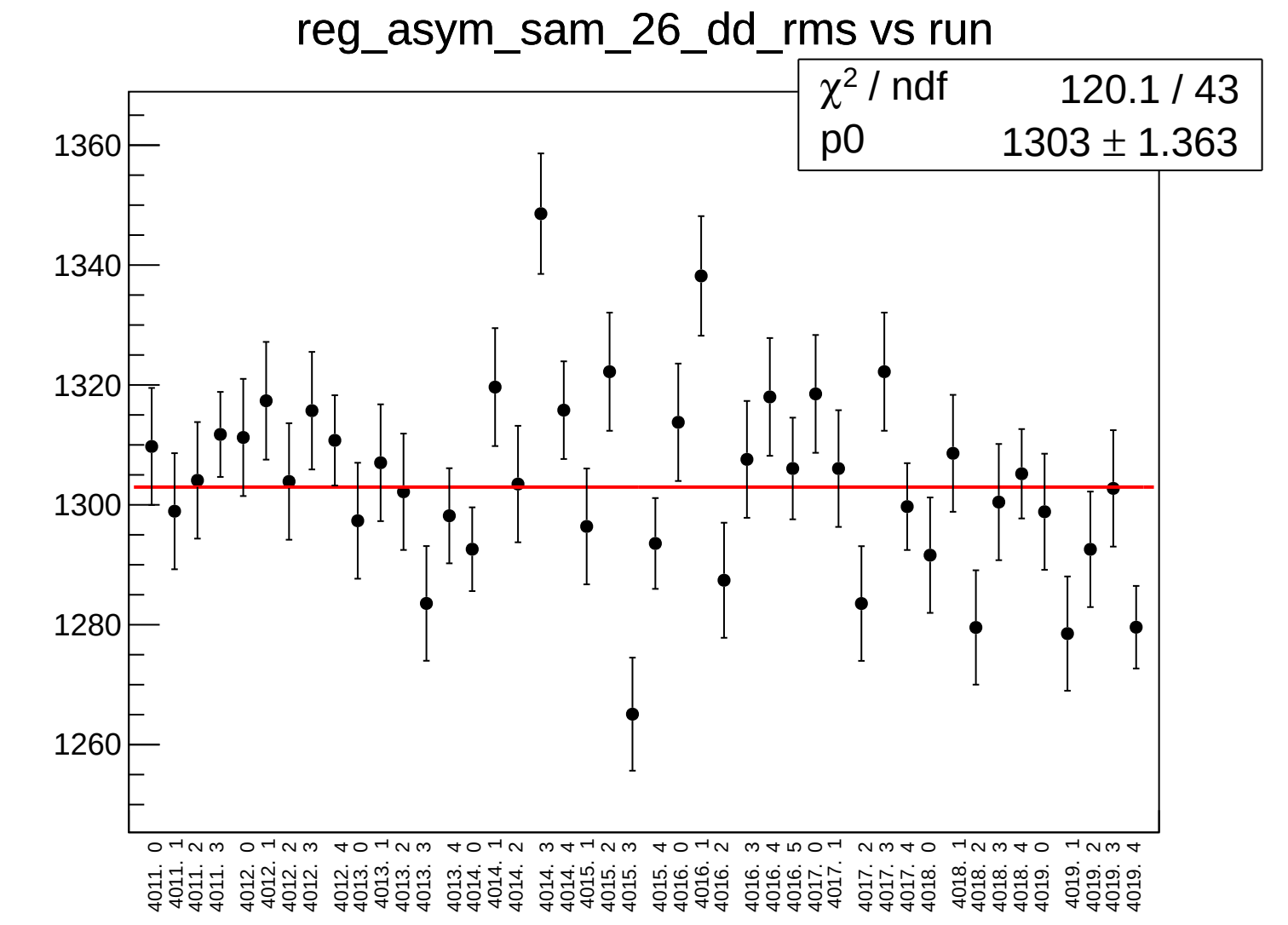

reg_asym_sam_15_dd_rms vs run
χ² / ndf 1506 / 43
p0 348 ± 0.3643
410
400
390
380
370
360
350
340
330
320
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

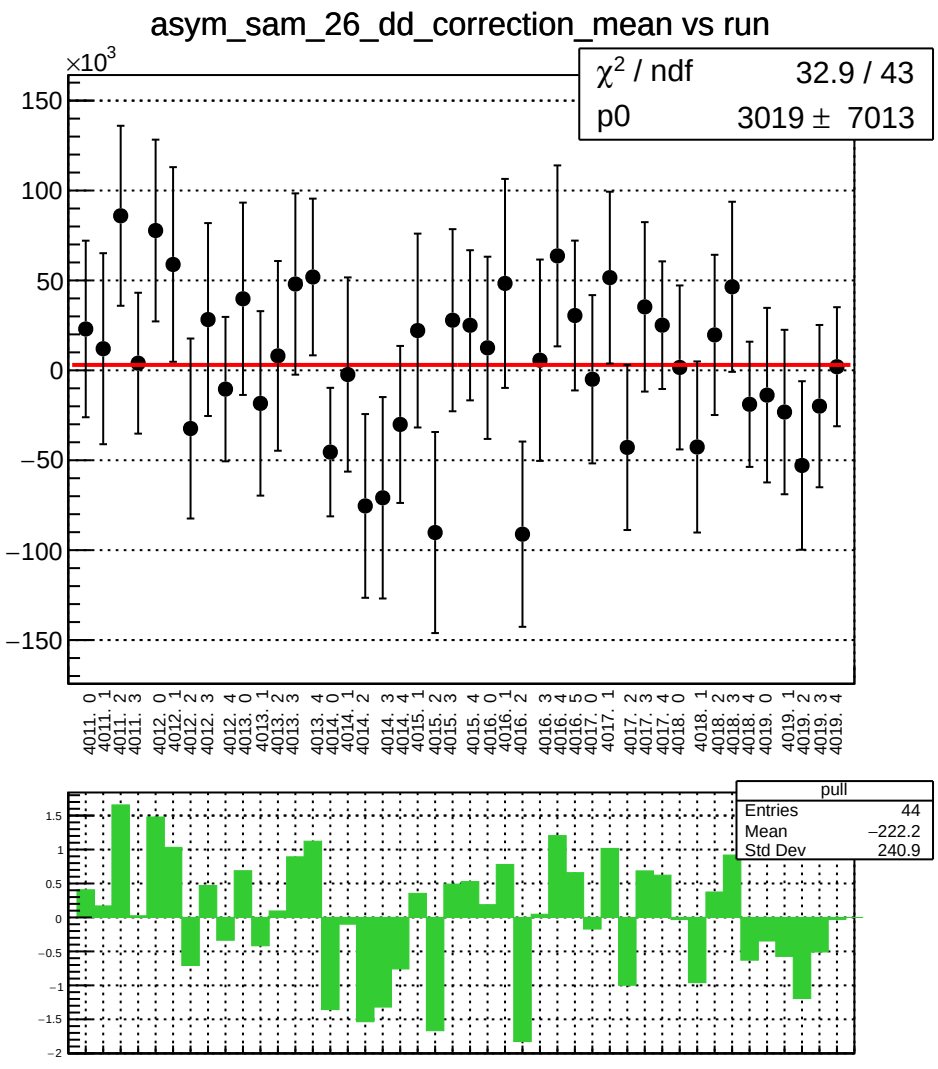

asym_sam_15_dd_correction_mean vs run
χ² / ndf 54.49 / 43
p0 1444 ± 2084
60000
40000
20000
0
−20000
−40000
−60000
−80000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 217.9
Std Dev 195.8
2
1
0
−1
−2

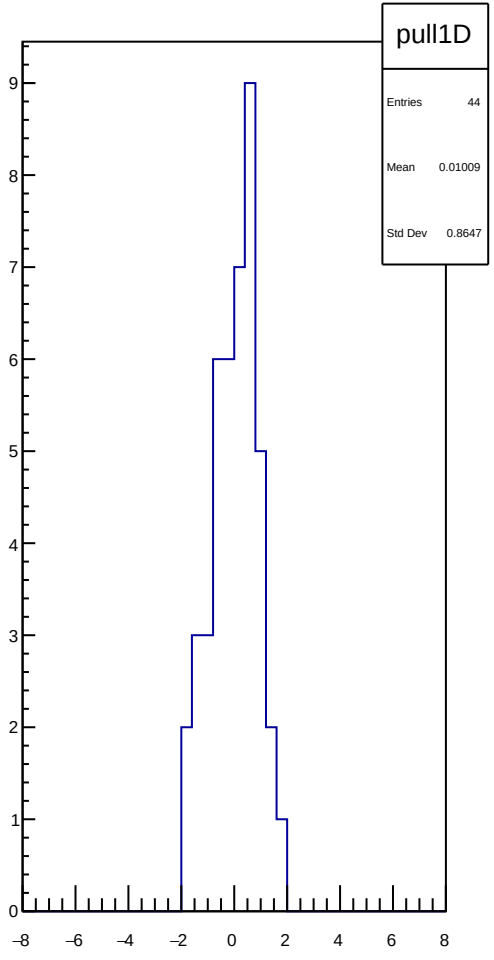

pull1D
Entries 44
Mean −0.01573
Std Dev 1.113
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

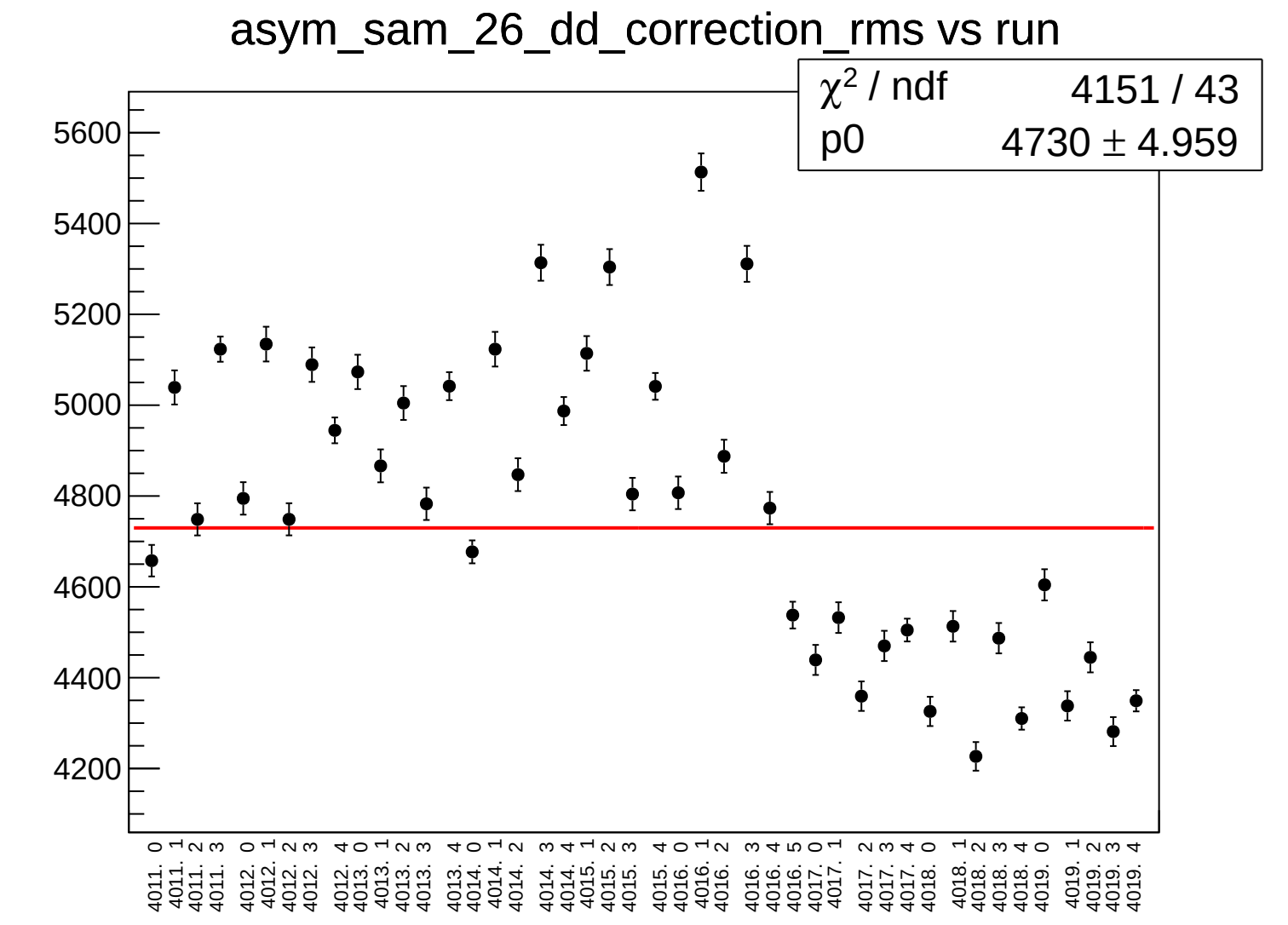

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1.458e+04 / 43
p0 1397 ± 1.474
2200
2000
1800
1600
1400
1200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

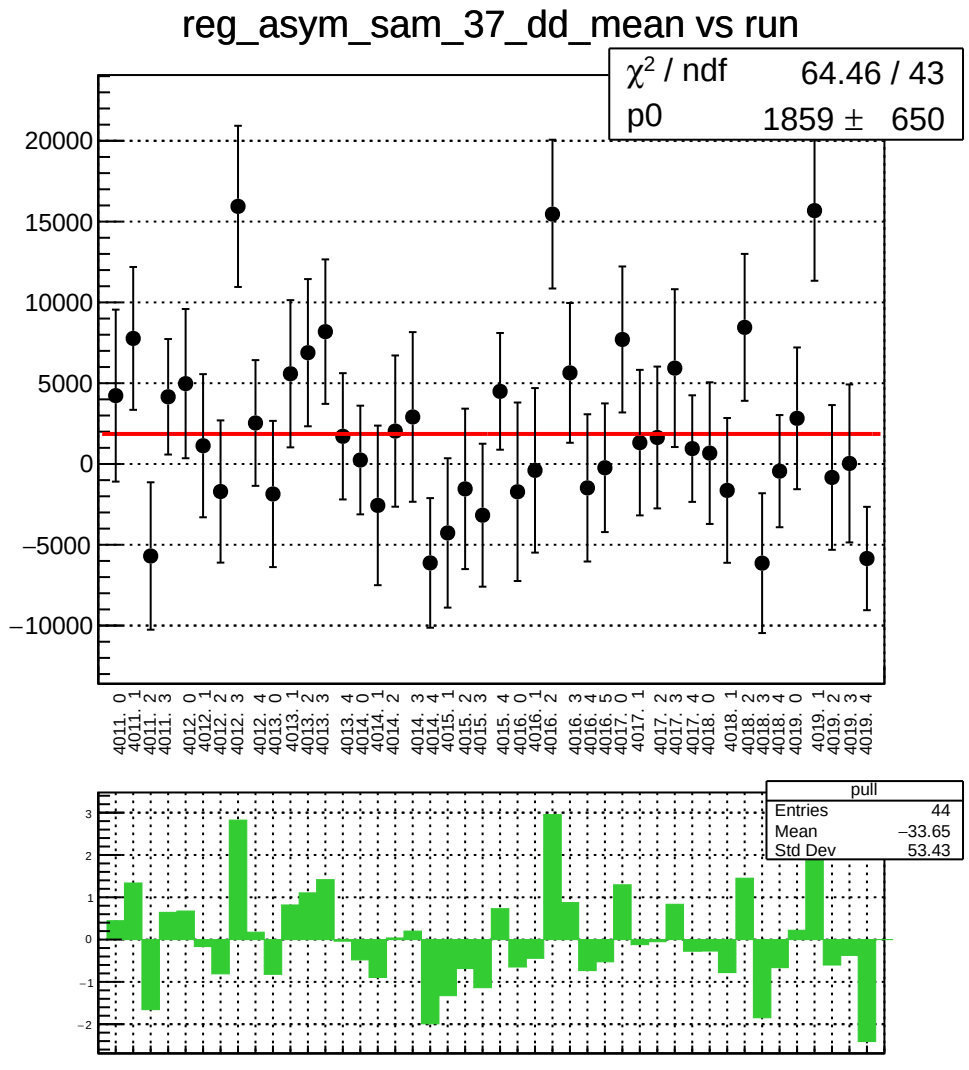

reg_asym_sam_26_dd_mean vs run
χ^2 / ndf 39.52 / 43
p0 2672 ± 1928
40000
30000
20000
10000
0
−10000
−20000
−30000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 26.31
Std Dev 2.774
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean 0.03465
Std Dev 0.9471
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

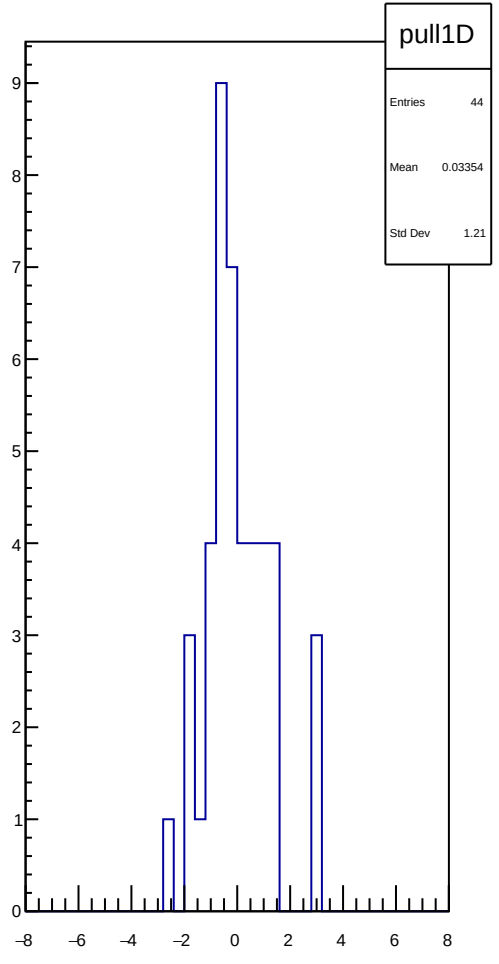

reg_asym_sam_26_dd_rms vs run
χ² / ndf 120.1 / 43
p0 1303 ± 1.363
1360
1340
1320
1300
1280
1260
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

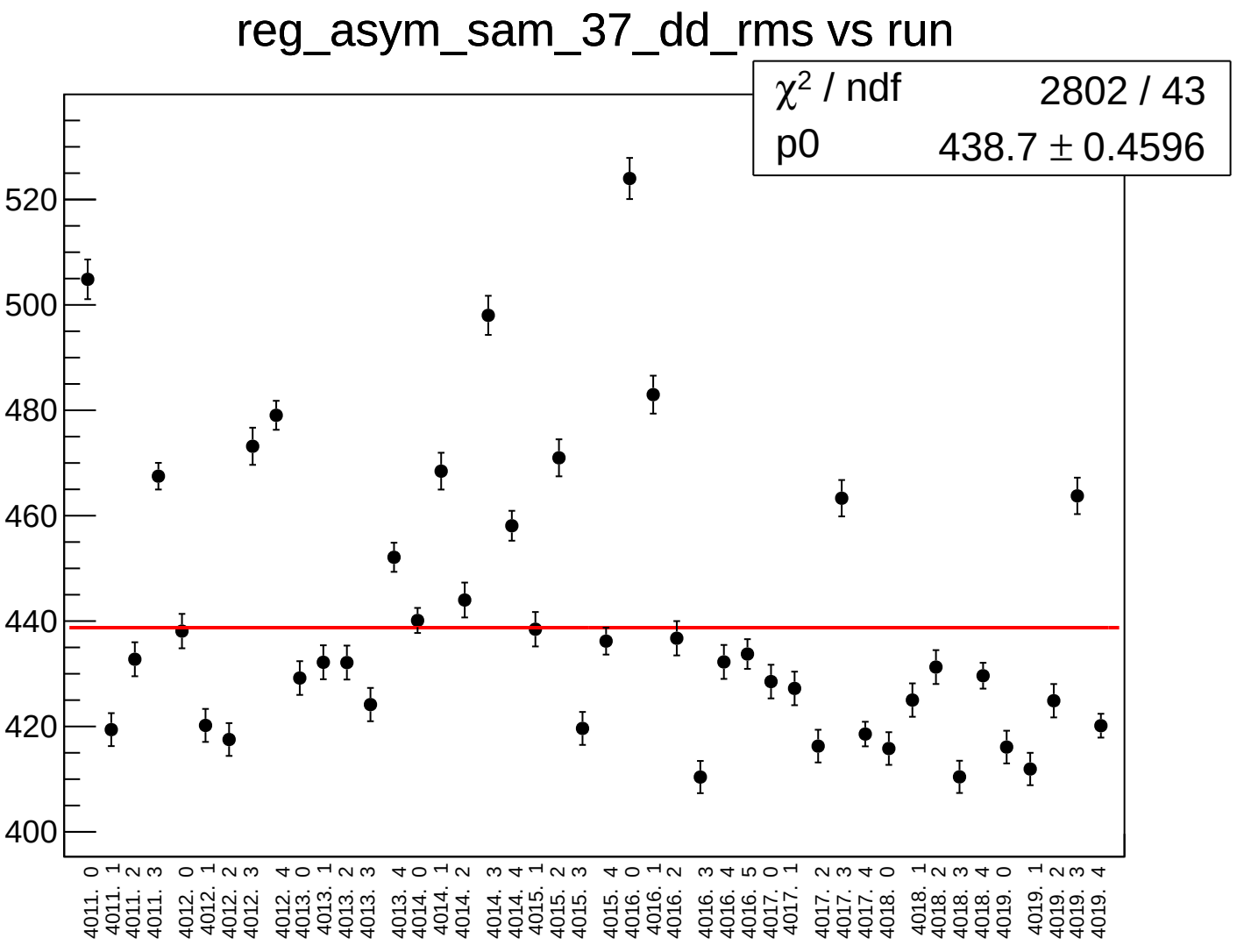

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 32.9 / 43
p0 3019 ± 7013
150
100
50
0
−50
−100
−150
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −222.2
Std Dev 240.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

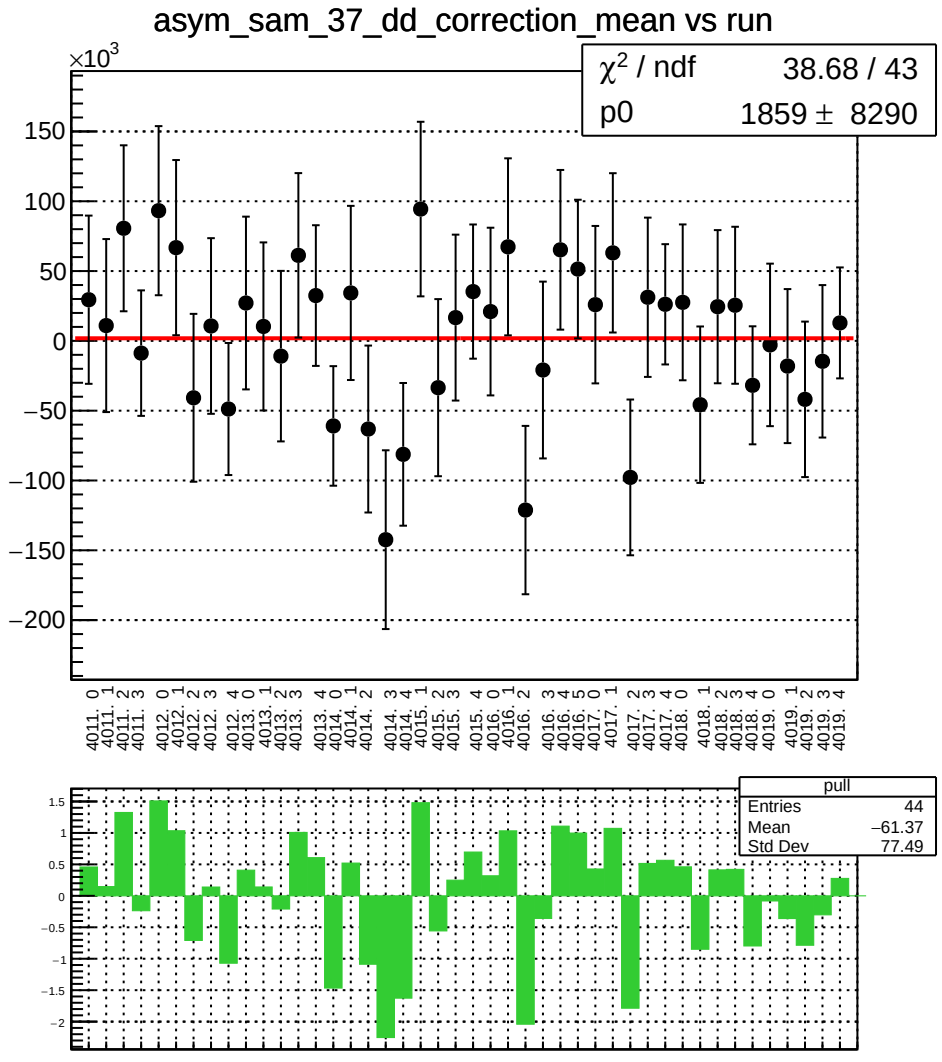

pull1D
Entries 44
Mean 0.01009
Std Dev 0.8647
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

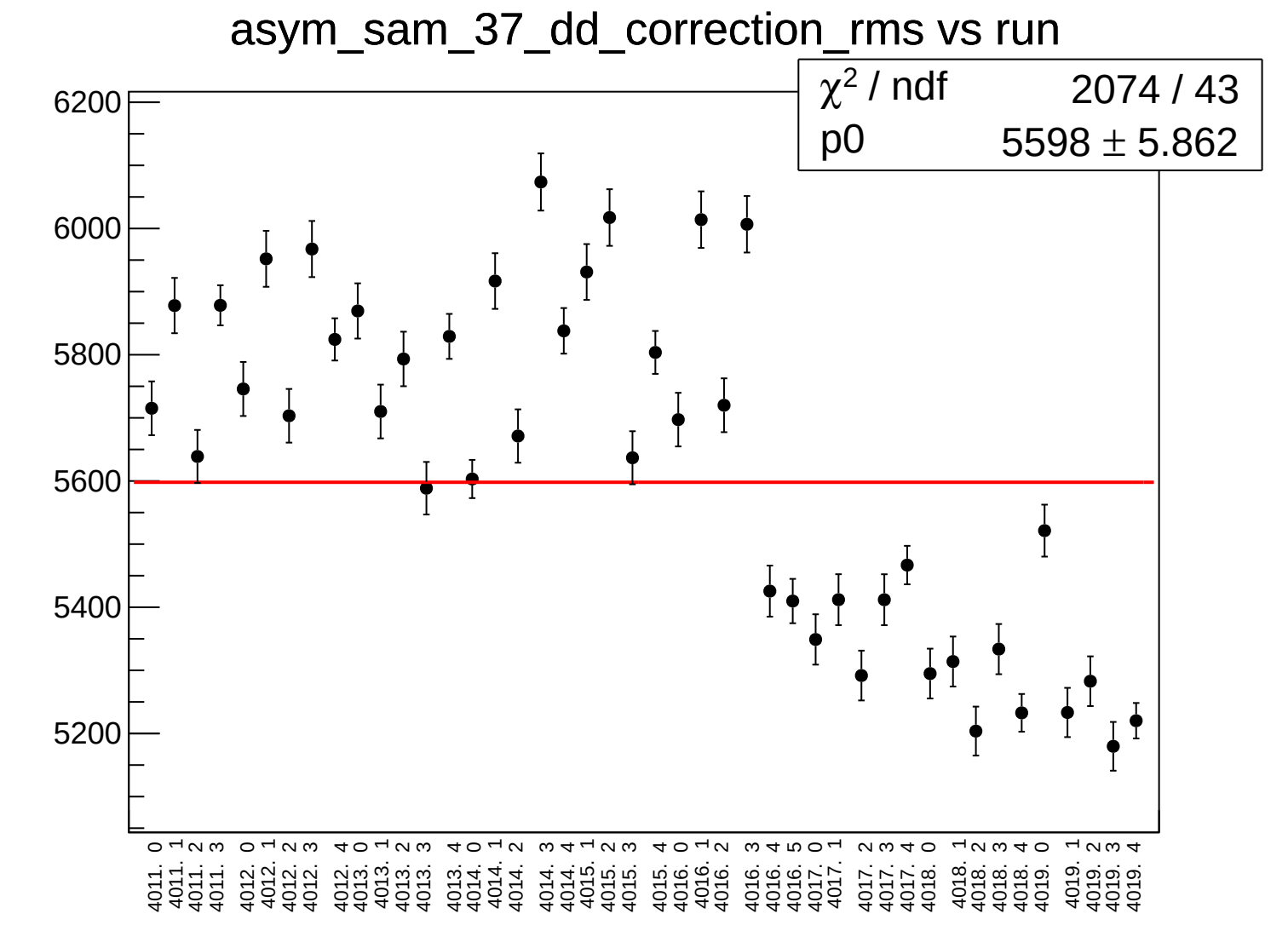

asym_sam_26_dd_correction_rms vs run
χ^2 / ndf 4151 / 43
p0 4730 ± 4.959
5600
5400
5200
5000
4800
4600
4400
4200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

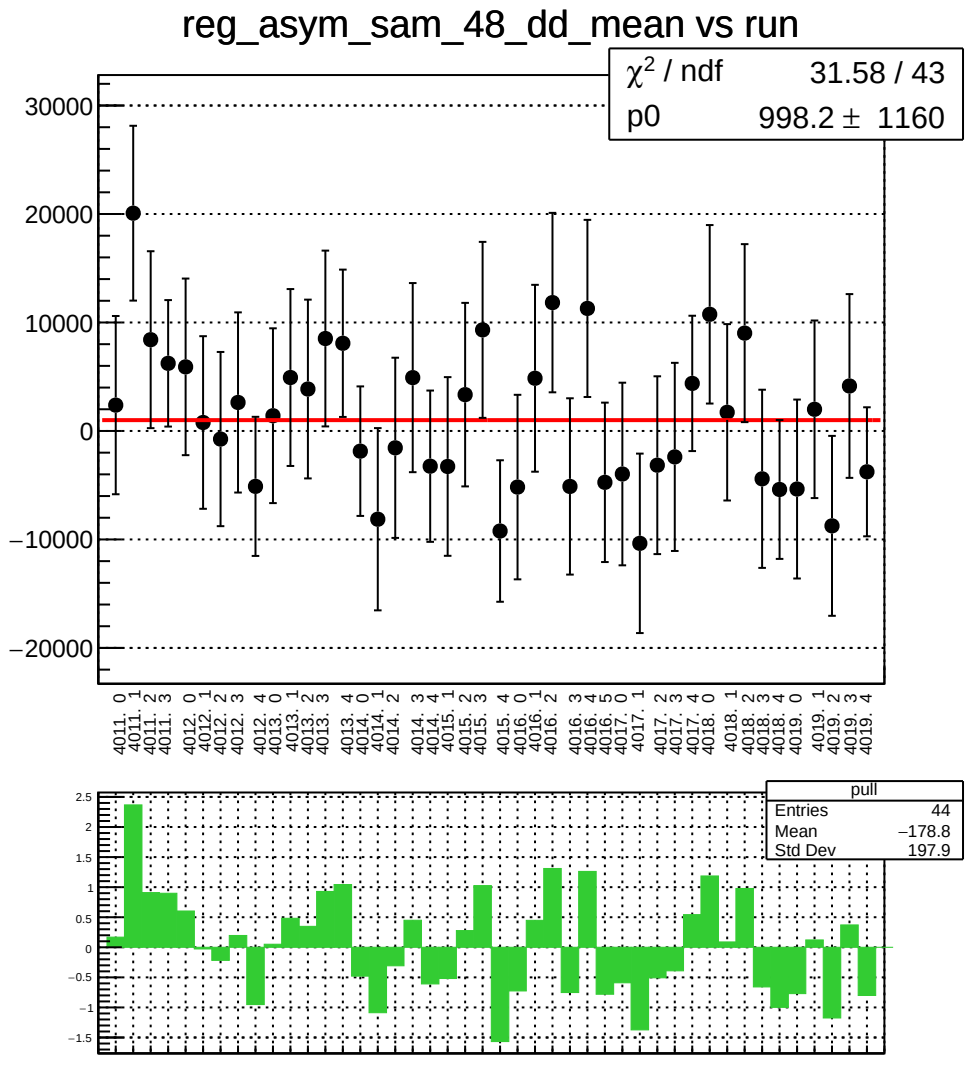

reg_asym_sam_37_dd_mean vs run
χ² / ndf 64.46 / 43
p0 1859 ± 650
pull
Entries 44
Mean −33.65
Std Dev 53.43

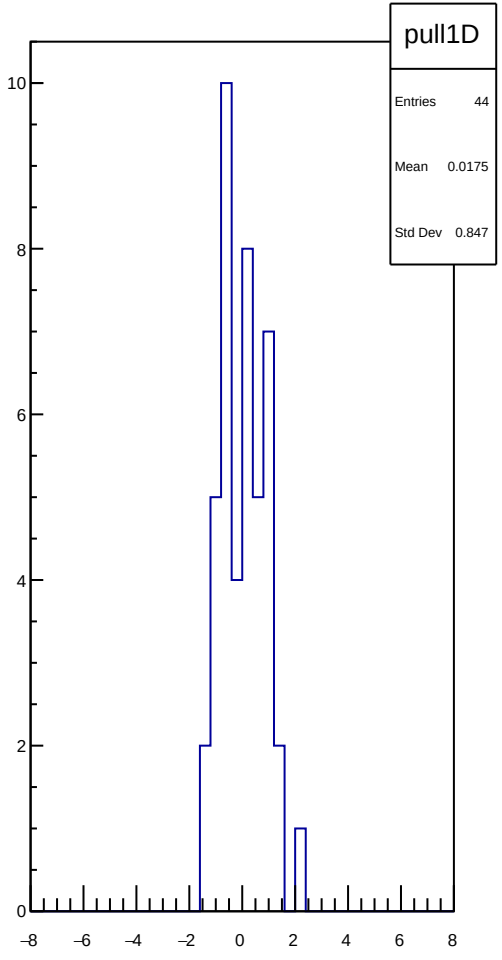

pull1D
Entries 44
Mean 0.03354
Std Dev 1.21

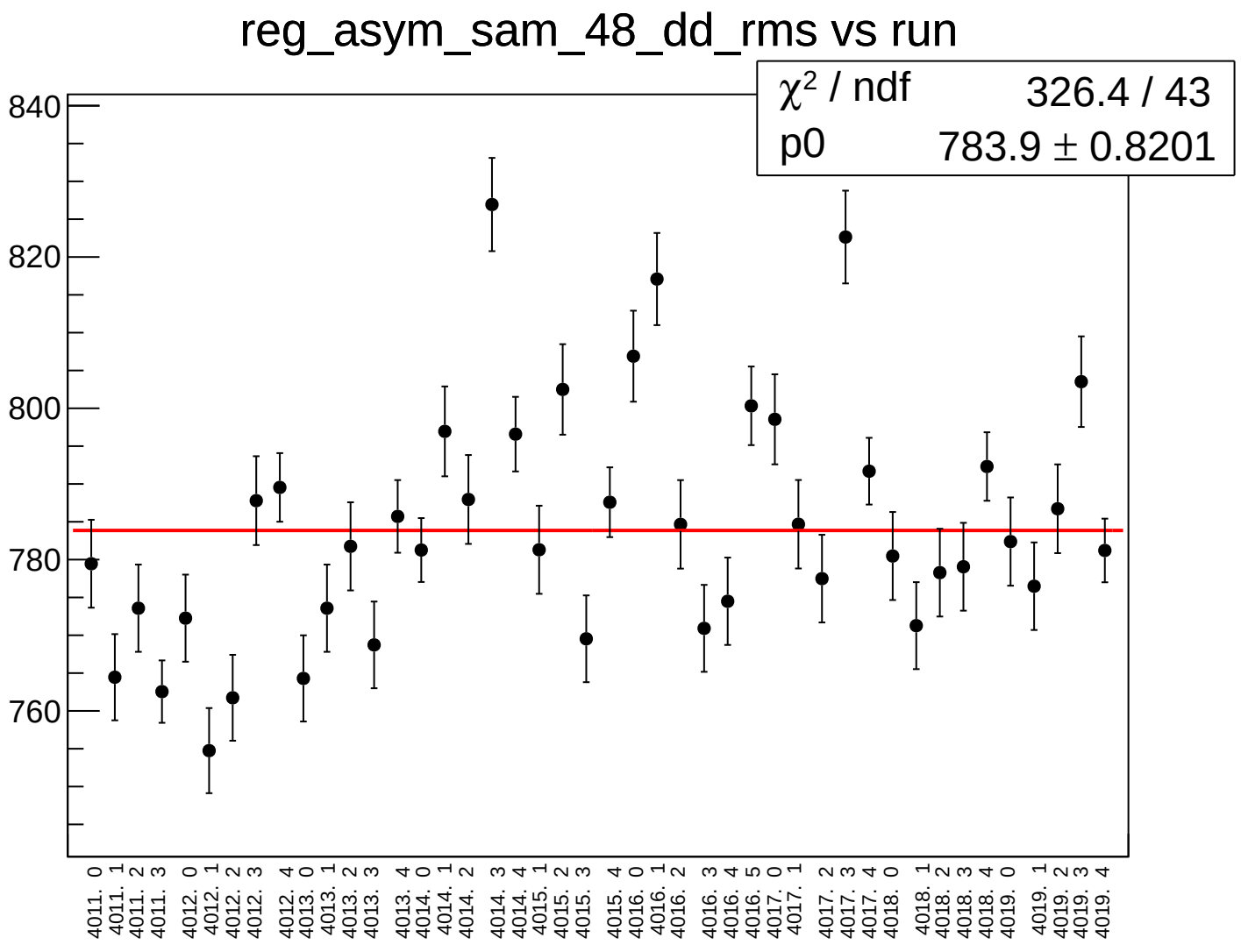

reg_asym_sam_37_dd_rms vs run
χ² / ndf 2802 / 43
p0 438.7 ± 0.4596
520
500
480
460
440
420
400
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

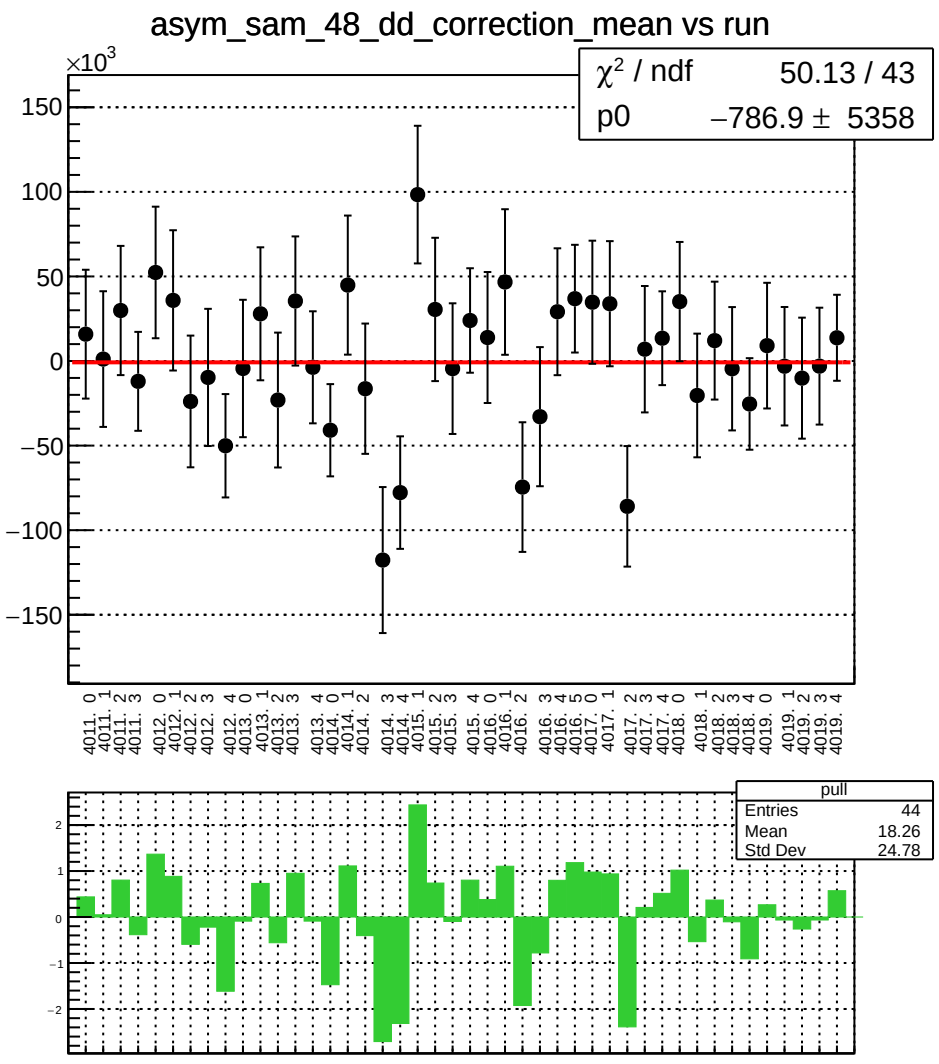

asym_sam_37_dd_correction_mean vs run
×10^3
χ² / ndf 38.68 / 43
p0 1859 ± 8290
150
100
50
0
−50
−100
−150
−200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −61.37
Std Dev 77.49
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean 0.01711
Std Dev 0.9375
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

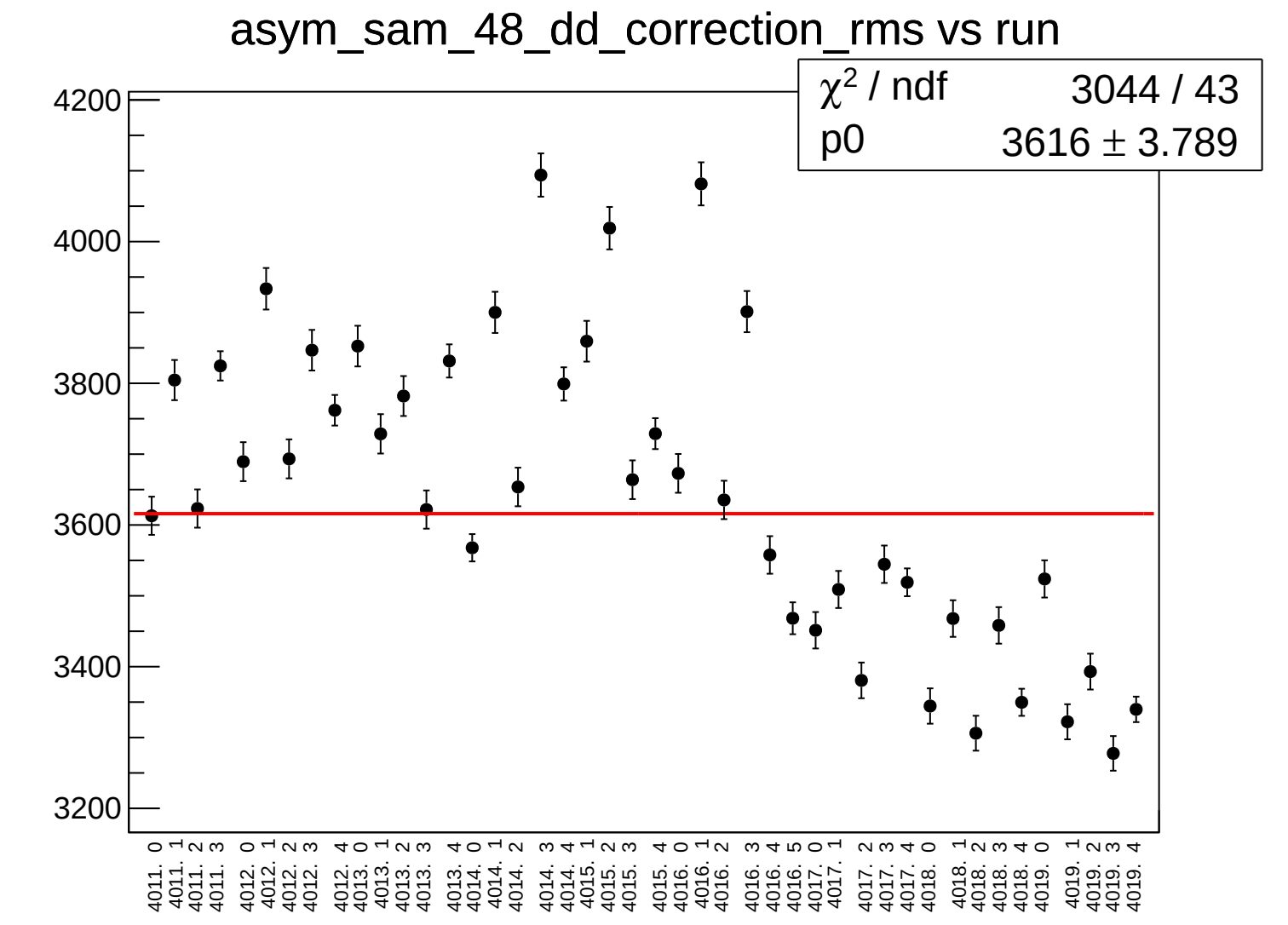

asym_sam_37_dd_correction_rms vs run
χ² / ndf 2074 / 43
p0 5598 ± 5.862
6200
6000
5800
5600
5400
5200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

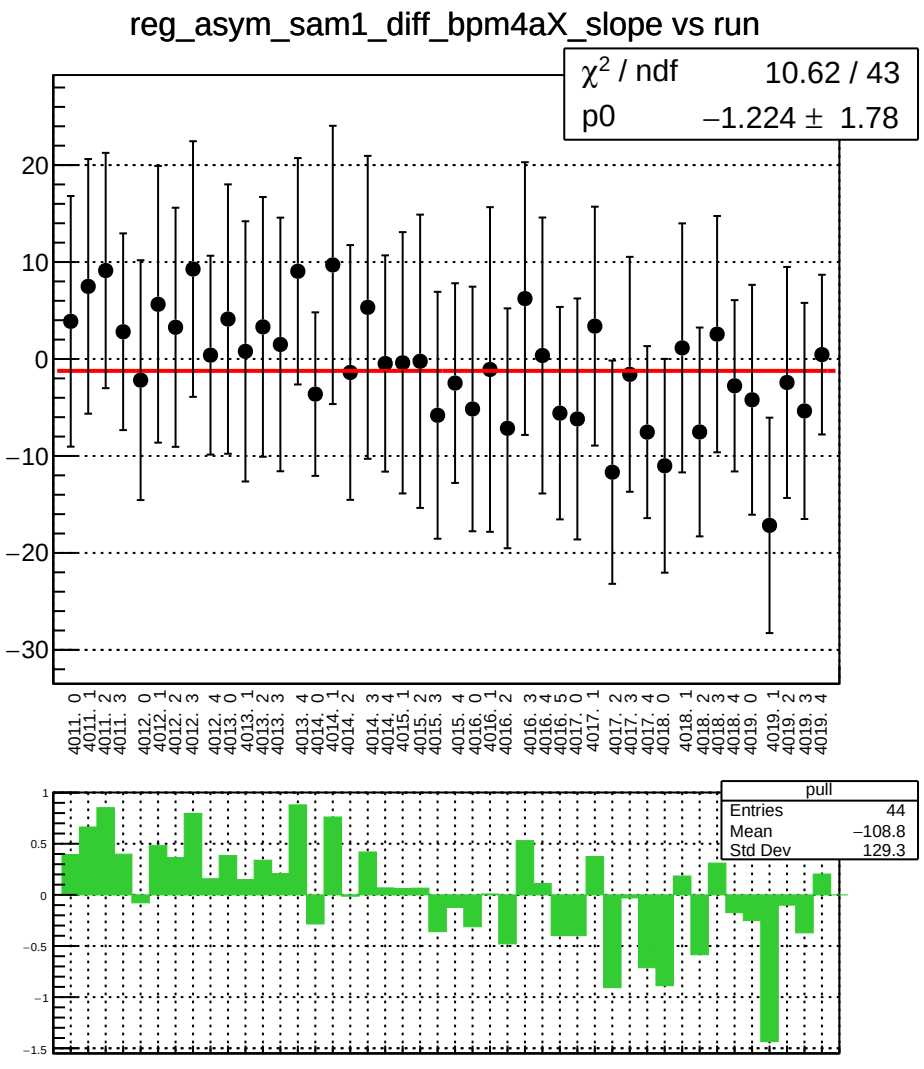

reg_asym_sam_48_dd_mean vs run
χ² / ndf 31.58 / 43
p0 998.2 ± 1160
30000
20000
10000
0
−10000
−20000
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −178.8
Std Dev 197.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

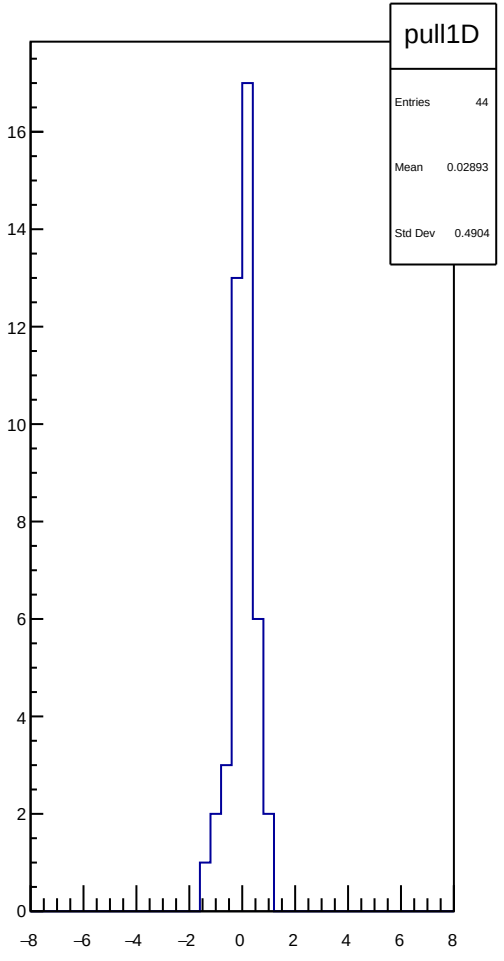

pull1D
Entries 44
Mean 0.0175
Std Dev 0.847
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

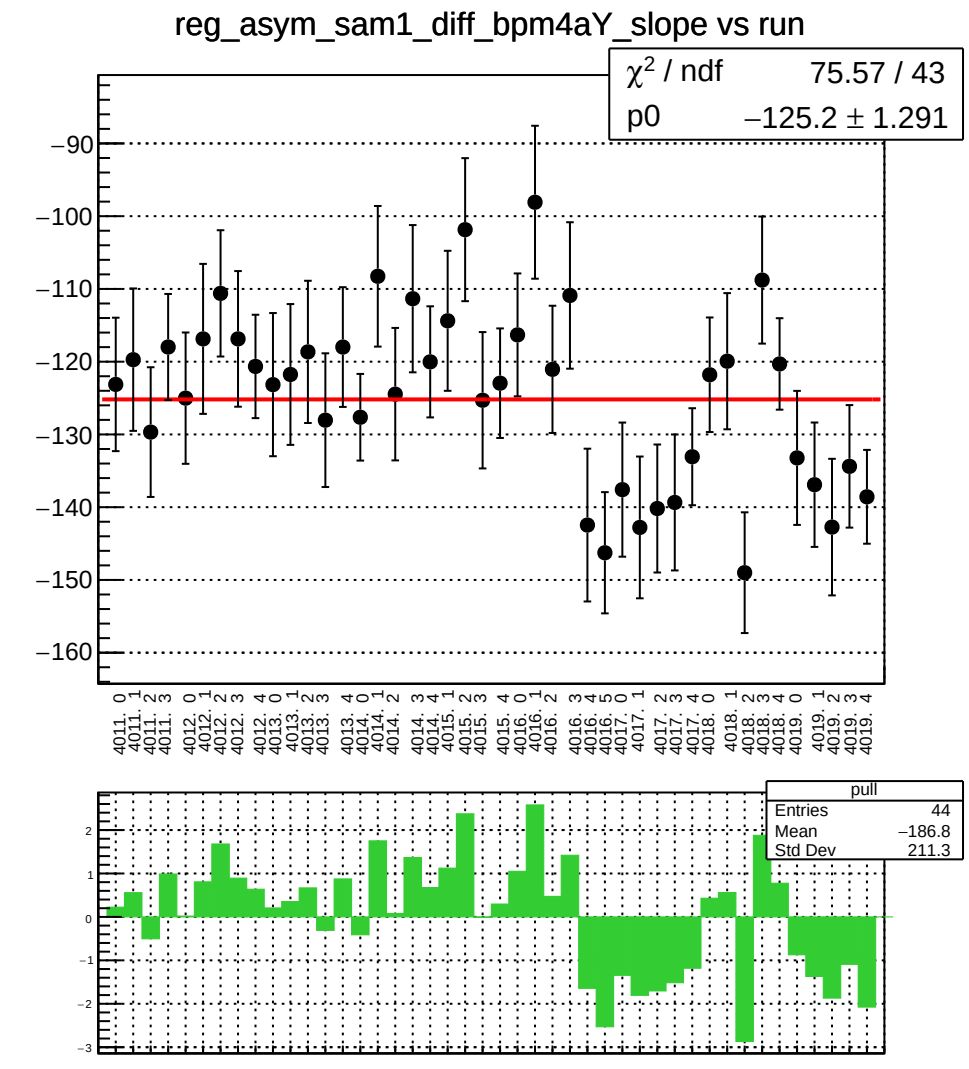

reg_asym_sam_48_dd_rms vs run
χ² / ndf 326.4 / 43
p0 783.9 ± 0.8201
840
820
800
780
760
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

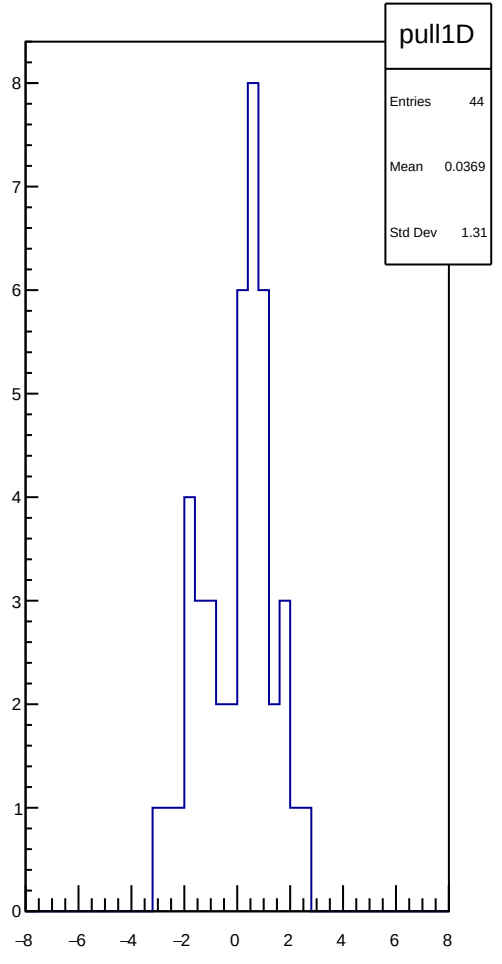

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 50.13 / 43
p0 −786.9 ± 5358
150
100
50
0
−50
−100
−150
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 18.26
Std Dev 24.78
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.02396
Std Dev 1.067
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

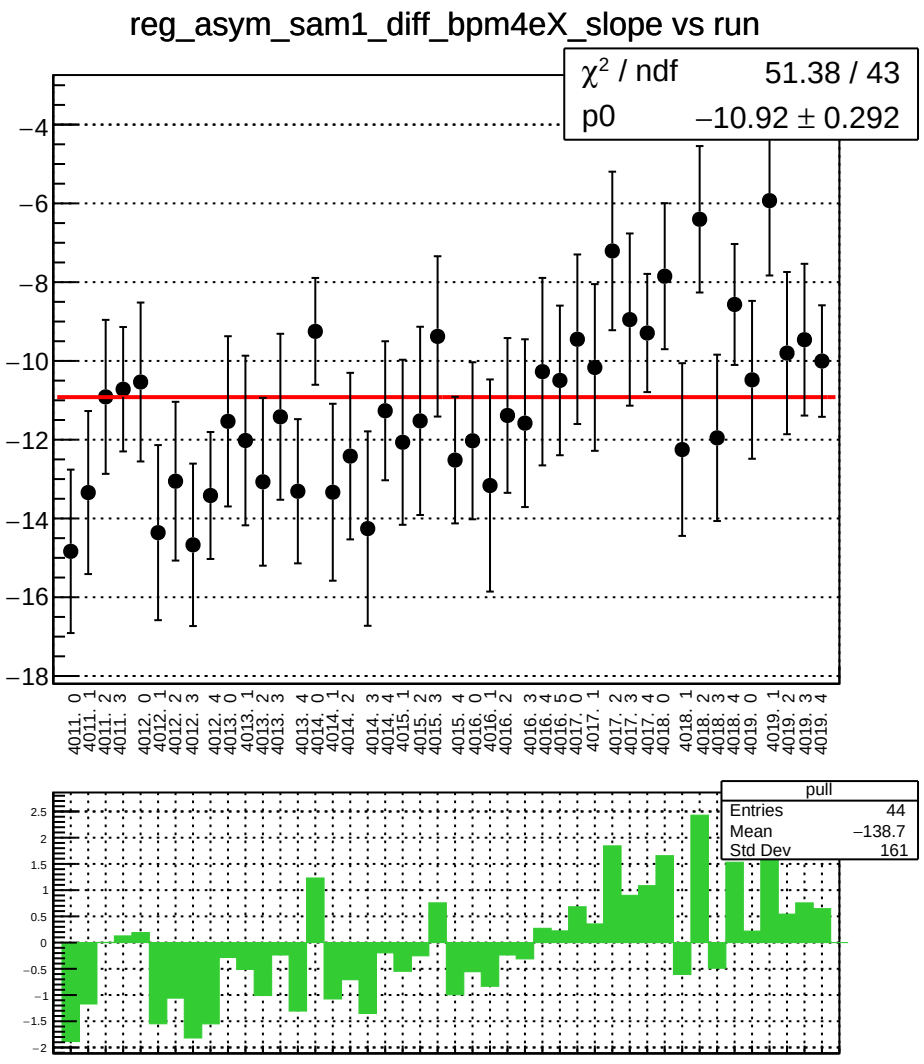

asym_sam_48_dd_correction_rms vs run
χ² / ndf 3044 / 43
p0 3616 ± 3.789
4200
4000
3800
3600
3400
3200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

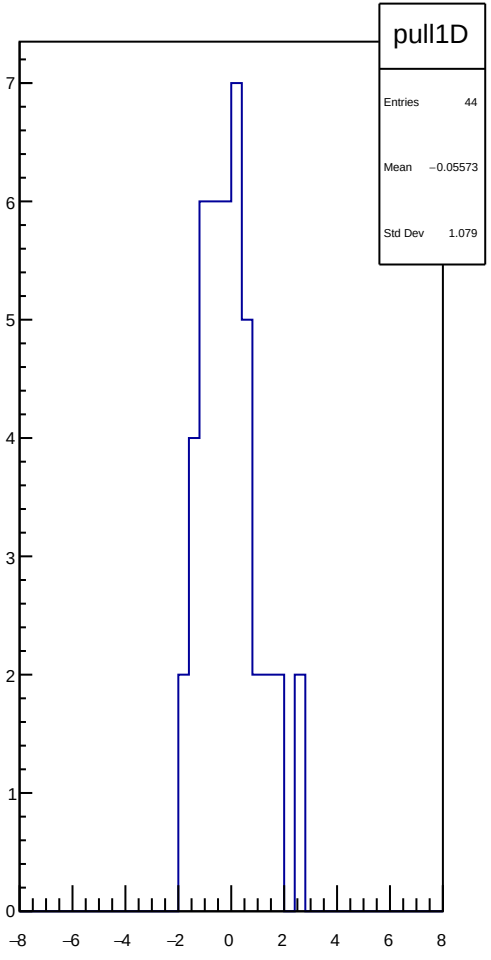

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 10.62 / 43
p0 −1.224 ± 1.78
pull
Entries 44
Mean −108.8
Std Dev 129.3

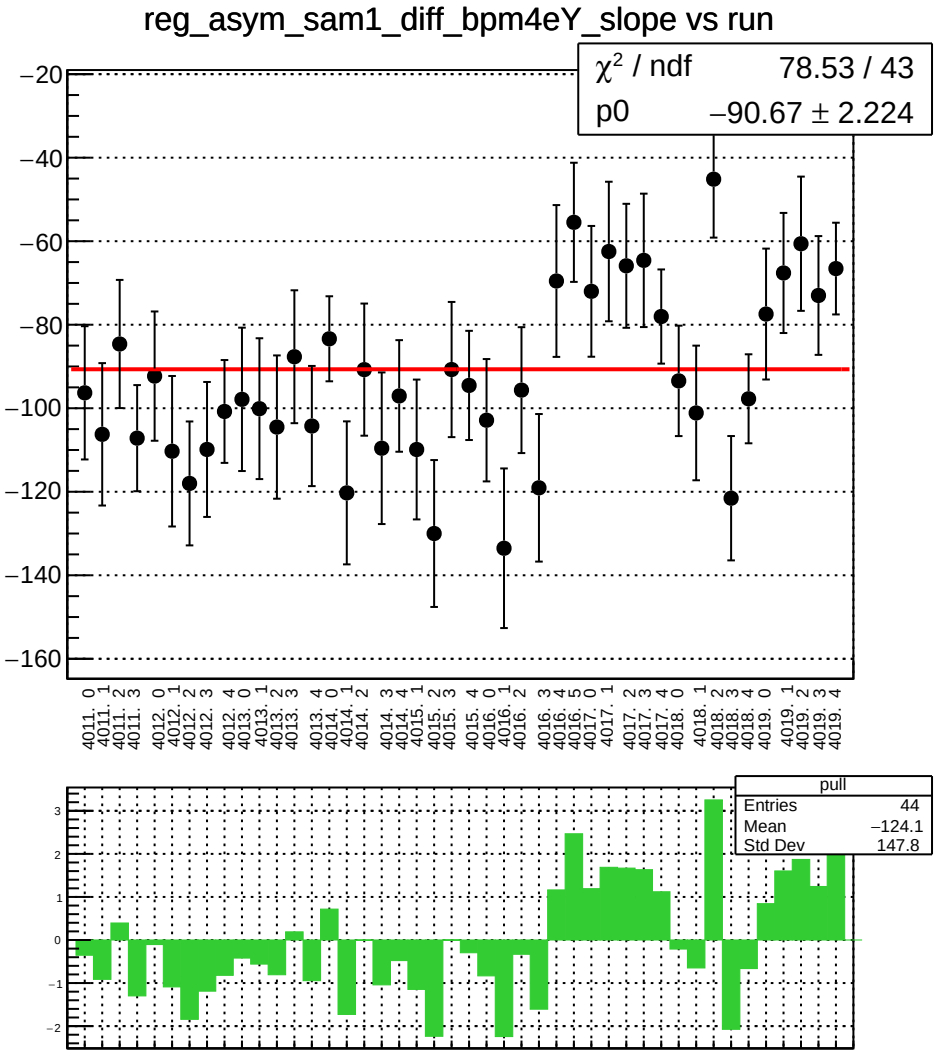

pull1D
Entries 44
Mean 0.02893
Std Dev 0.4904

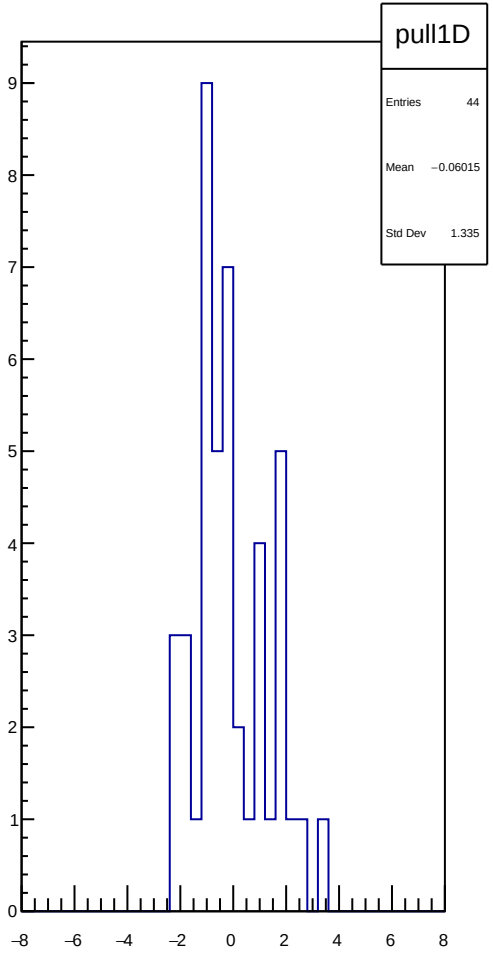

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 75.57 / 43
p0 −125.2 ± 1.291
pull
Entries 44
Mean −186.8
Std Dev 211.3

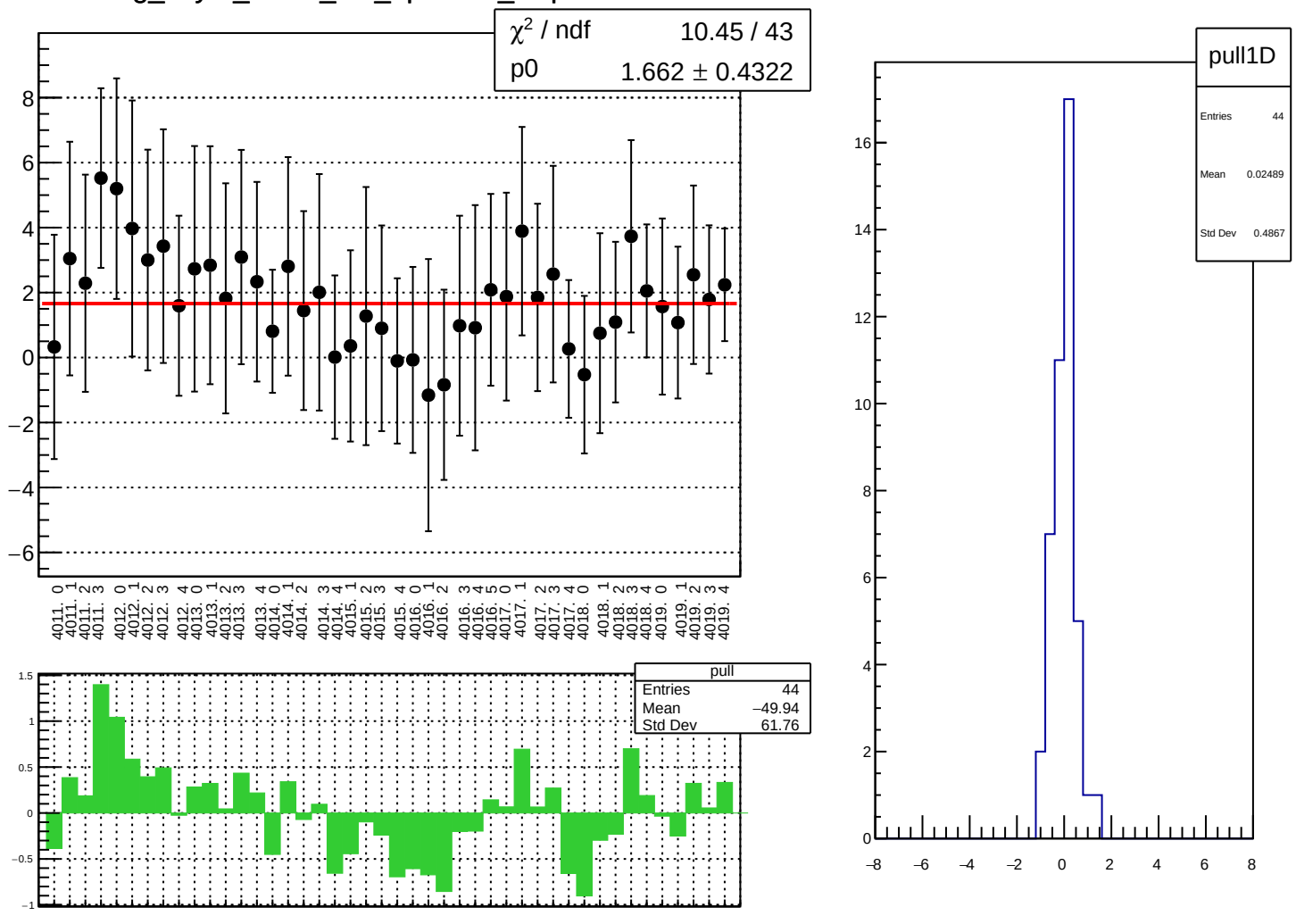

pull1D
Entries 44
Mean 0.0369
Std Dev 1.31

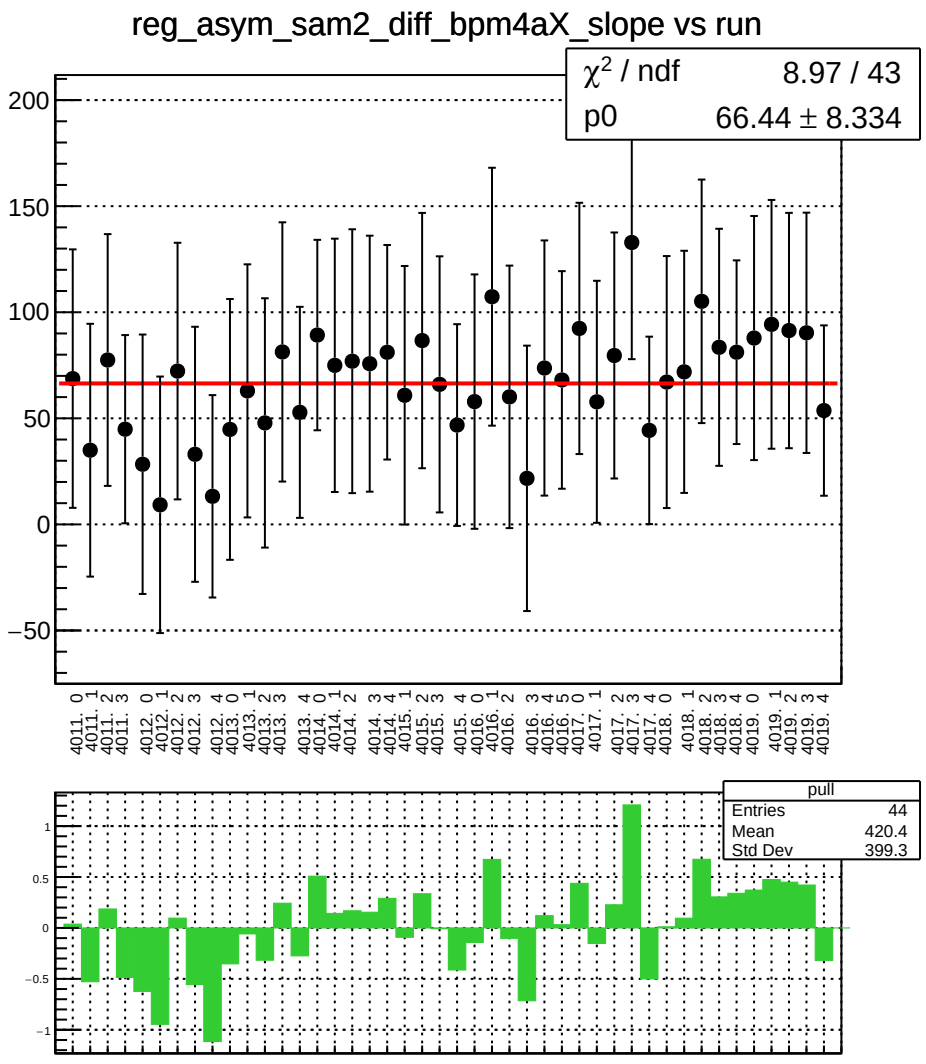

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 51.38 / 43
p0 −10.92 ± 0.292
pull
Entries 44
Mean −138.7
Std Dev 161

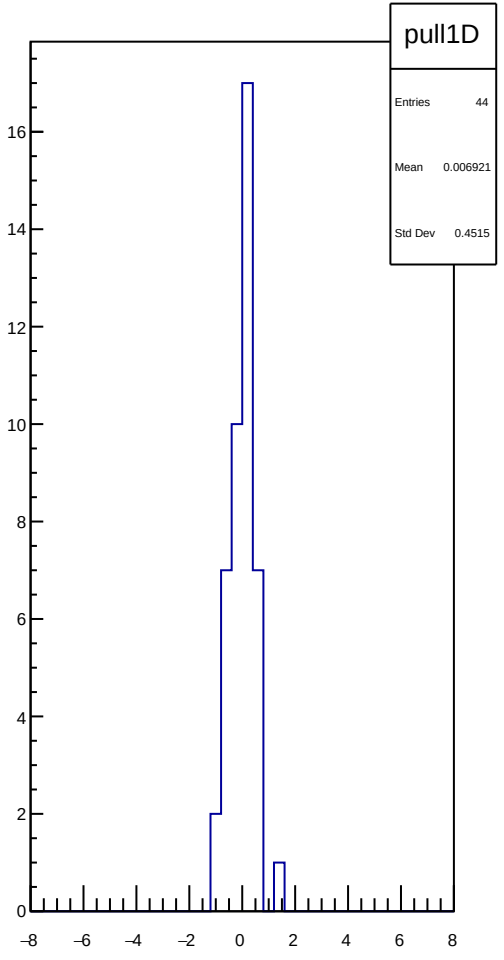

pull1D
Entries 44
Mean −0.05573
Std Dev 1.079

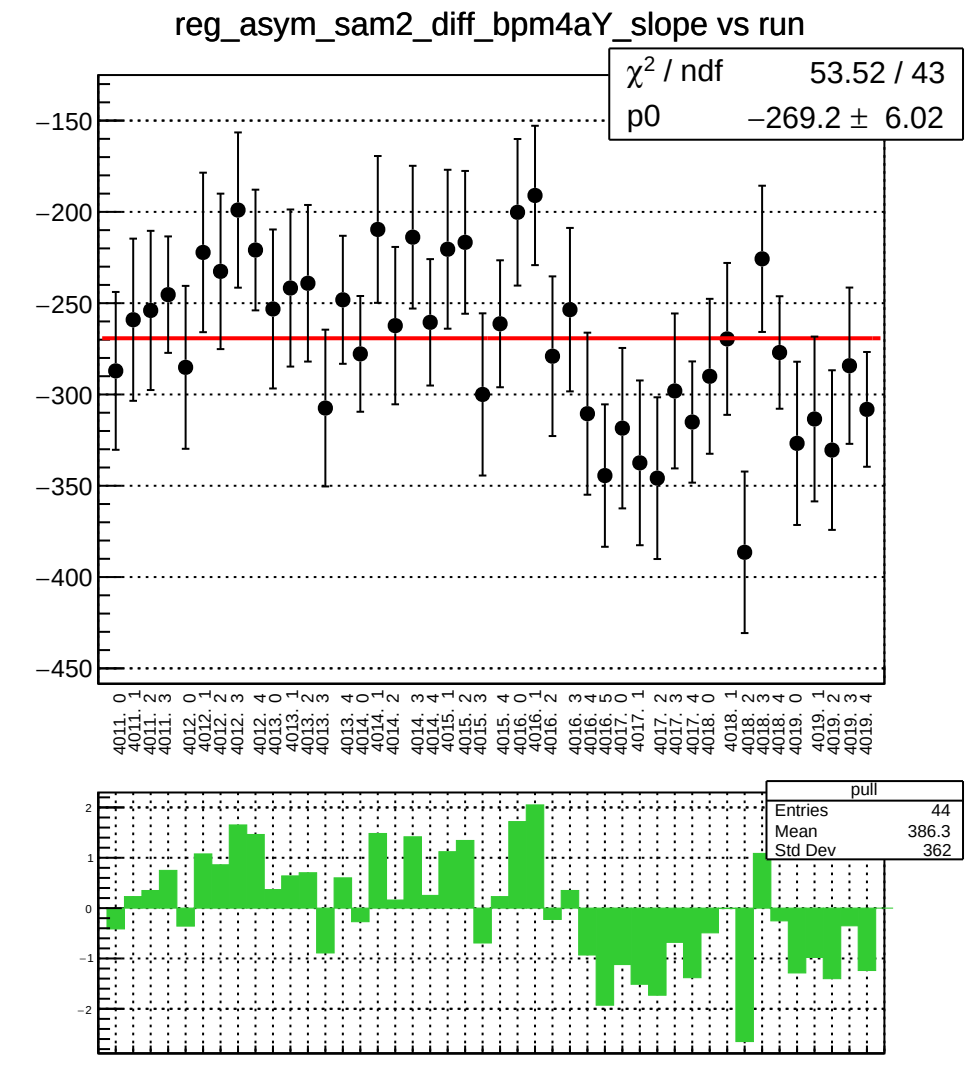

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 78.53 / 43
p0 −90.67 ± 2.224
pull
Entries 44
Mean −124.1
Std Dev 147.8

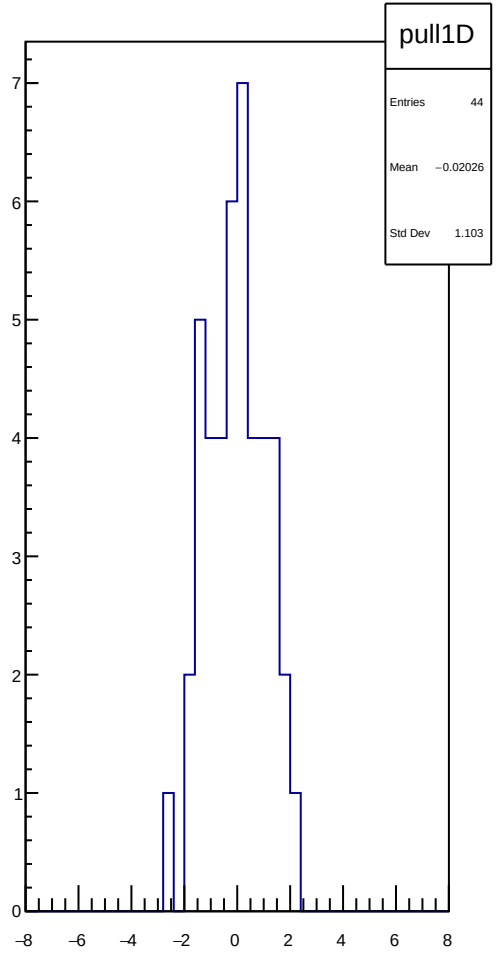

pull1D
Entries 44
Mean −0.06015
Std Dev 1.335

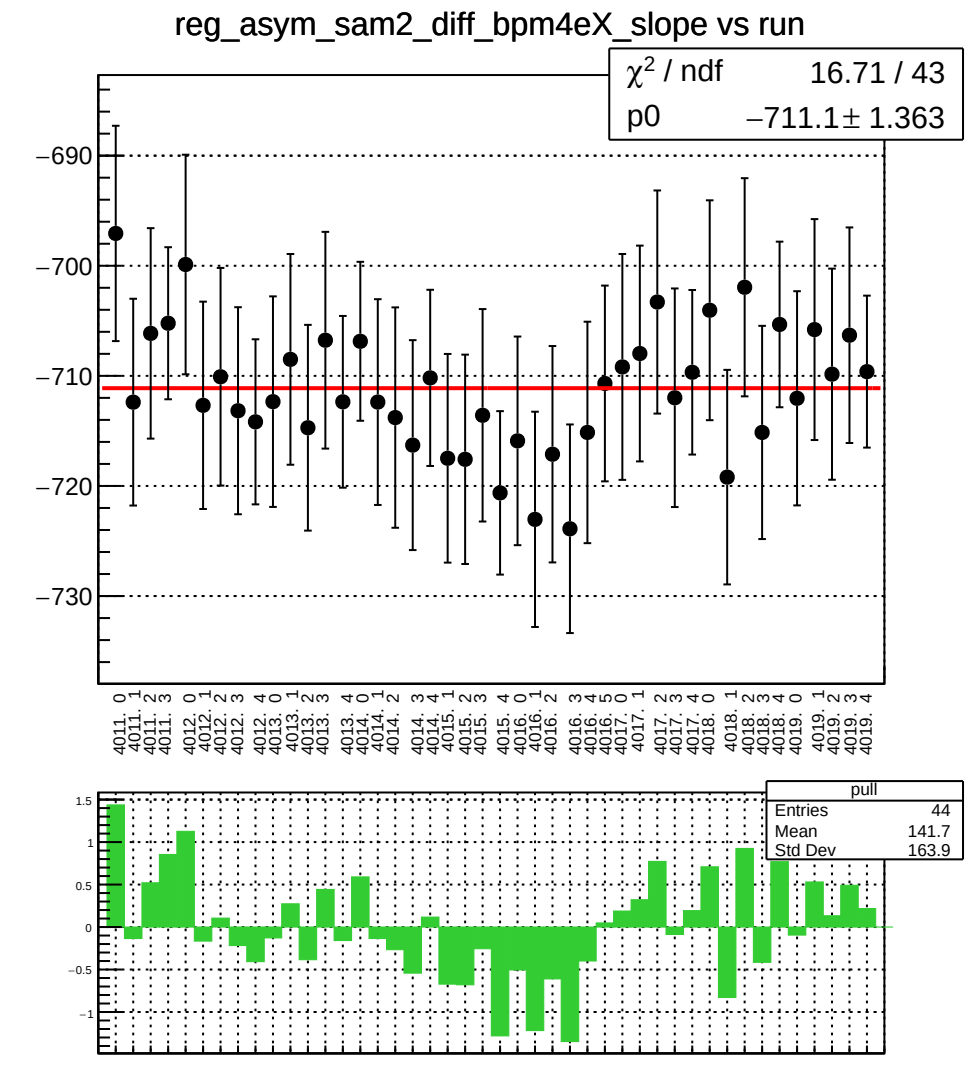

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 10.45 / 43
p0 1.662 ± 0.4322
pull
Entries 44
Mean −49.94
Std Dev 61.76
pull1D
Entries 44
Mean 0.02489
Std Dev 0.4867

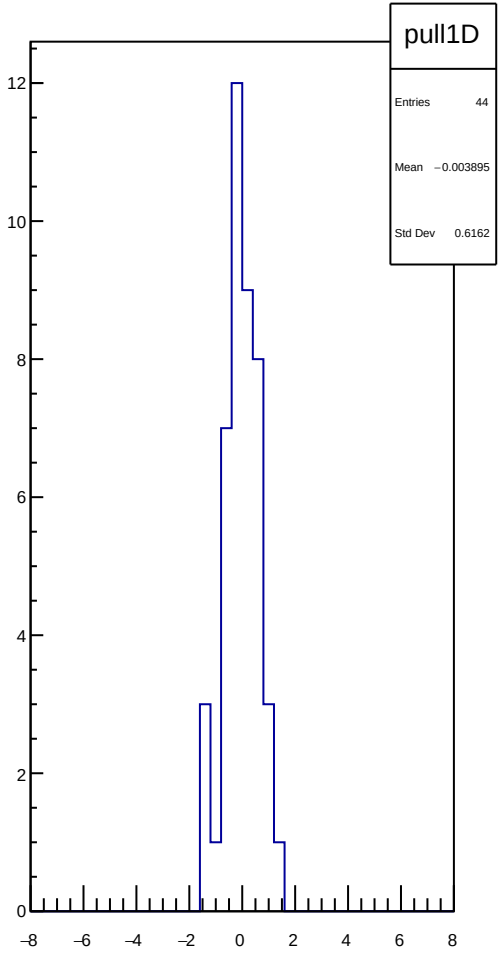

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 8.97 / 43
p0 66.44 ± 8.334
200
150
100
50
0
−50
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 420.4
Std Dev 399.3
1
0.5
0
−0.5
−1

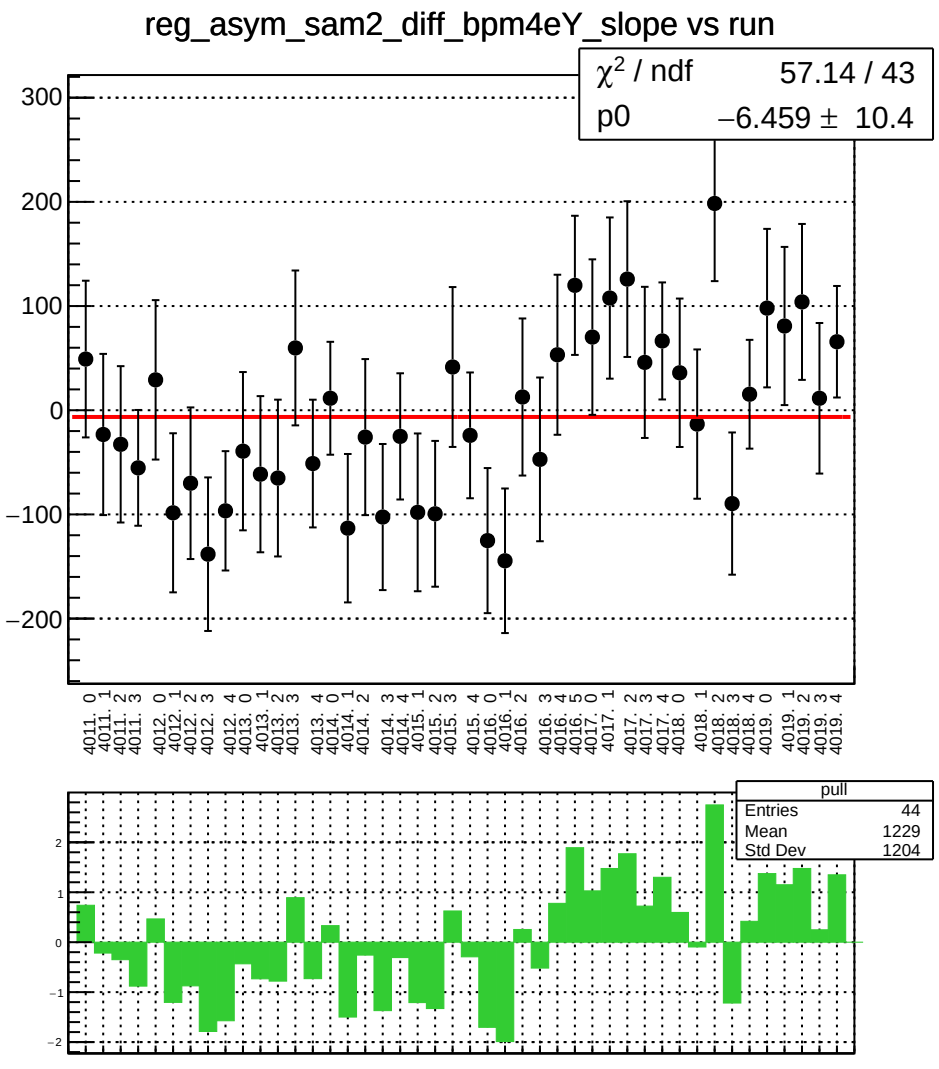

pull1D
Entries 44
Mean 0.006921
Std Dev 0.4515
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

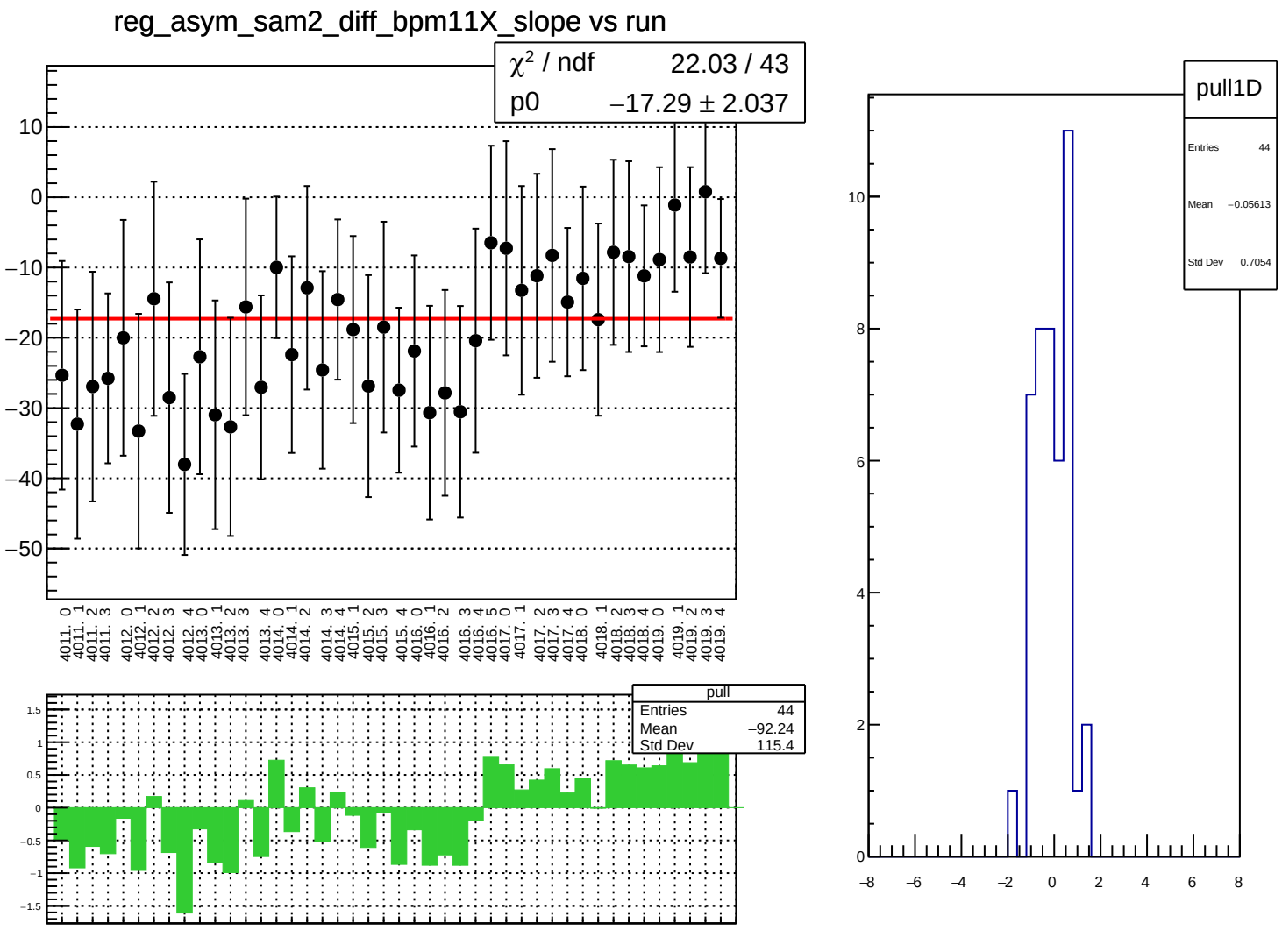

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 53.52 / 43
p0 −269.2 ± 6.02
−150
−200
−250
−300
−350
−400
−450
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 386.3
Std Dev 362
2
1
0
−1
−2

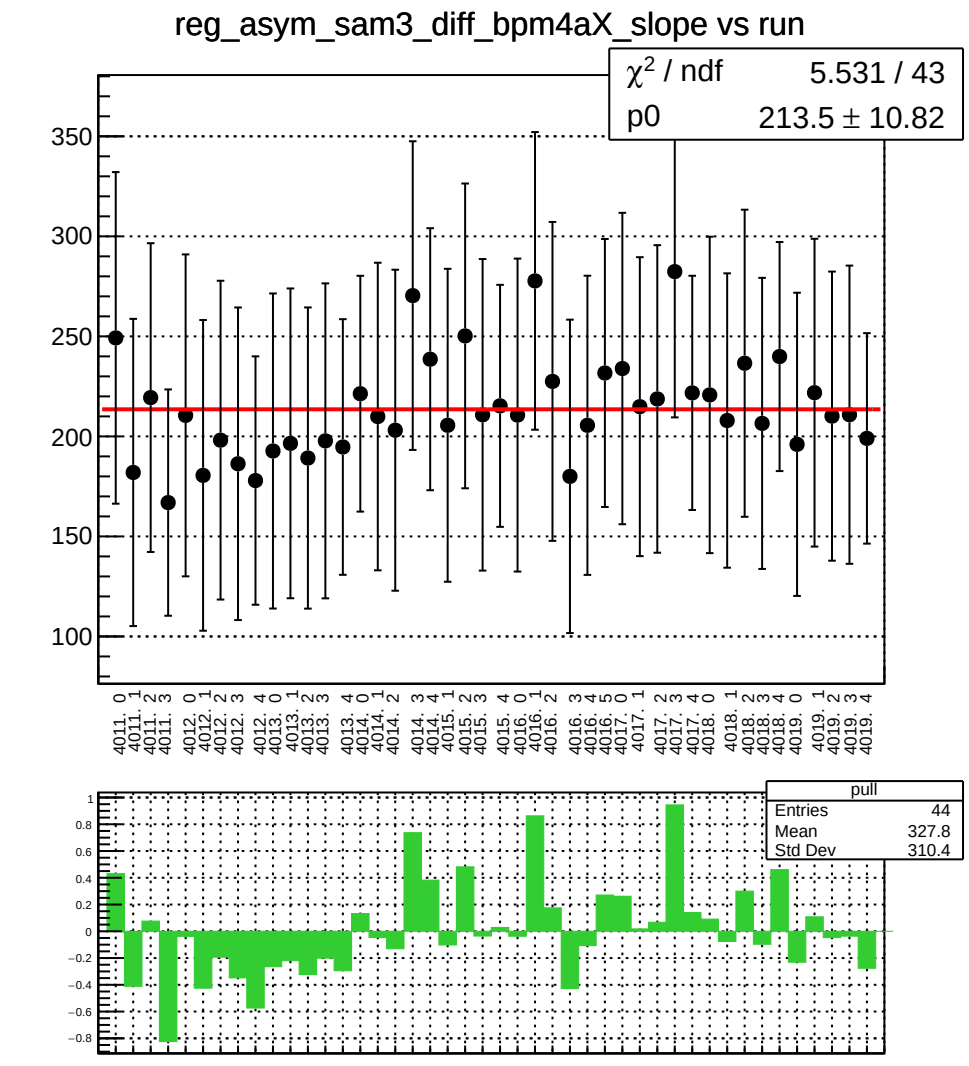

pull1D
Entries 44
Mean −0.02026
Std Dev 1.103
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

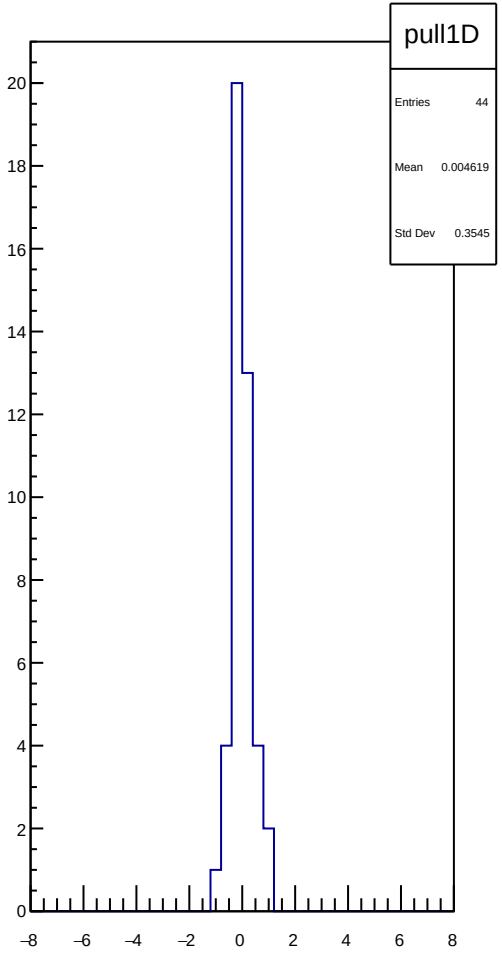

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 16.71 / 43
p0 −711.1± 1.363
−690
−700
−710
−720
−730
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 141.7
Std Dev 163.9
1.5
1
0.5
0
−0.5
−1

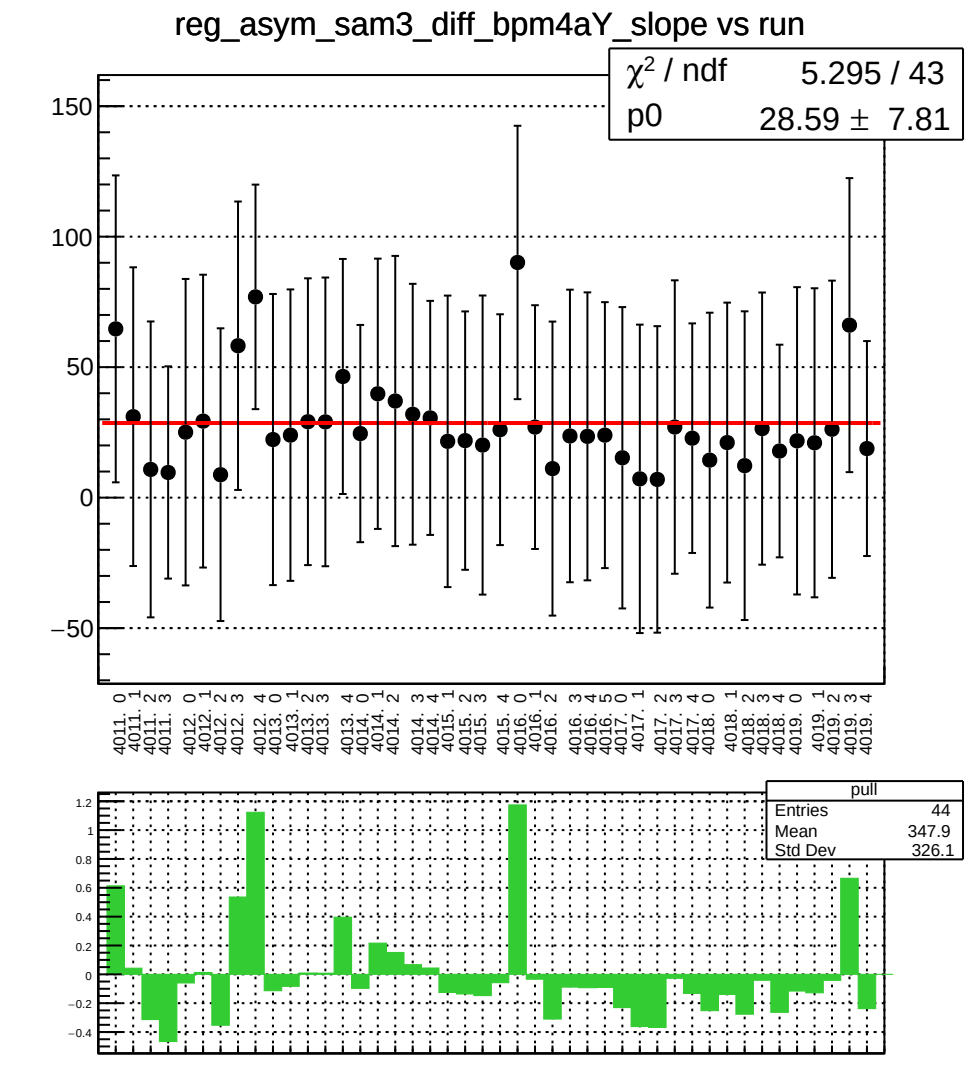

pull1D
Entries 44
Mean −0.003895
Std Dev 0.6162
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

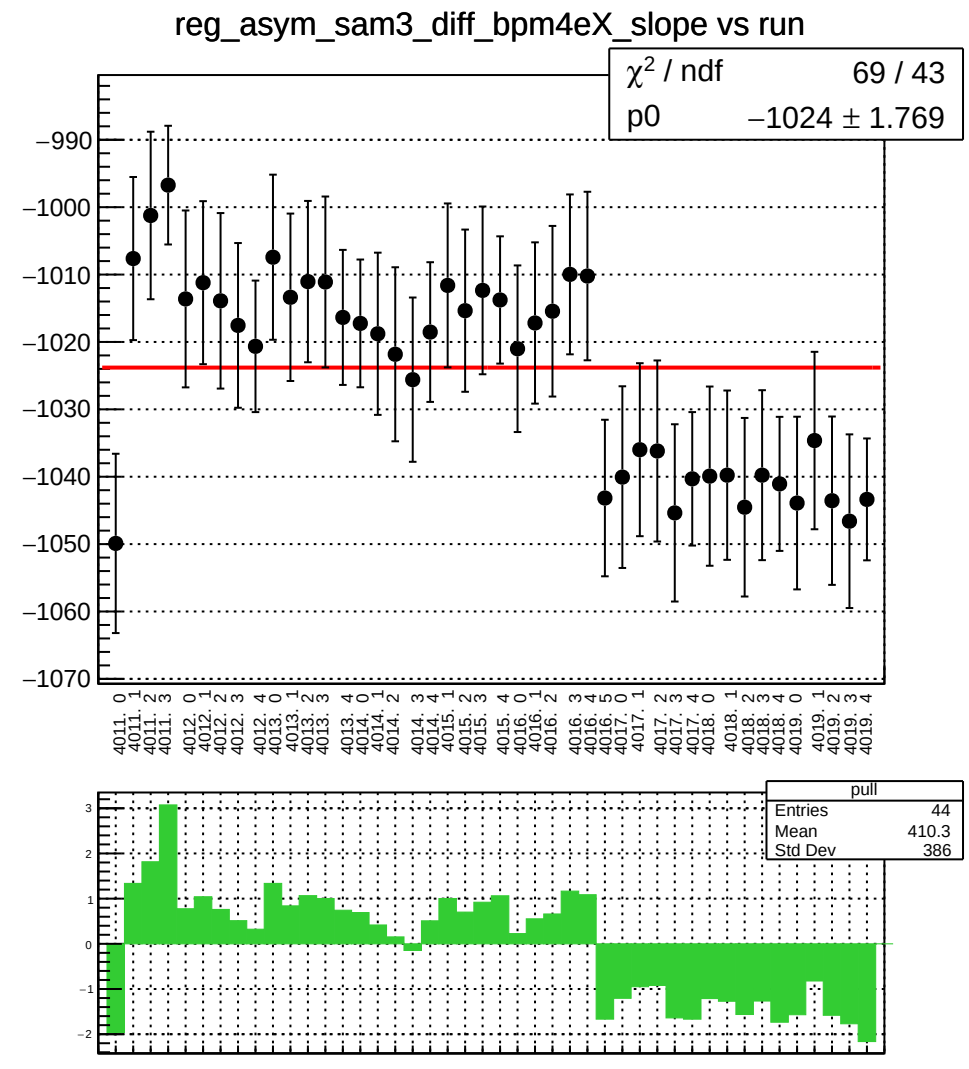

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 57.14 / 43
p0 −6.459 ± 10.4
300
200
100
0
−100
−200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 1229
Std Dev 1204
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.006285
Std Dev 1.14
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

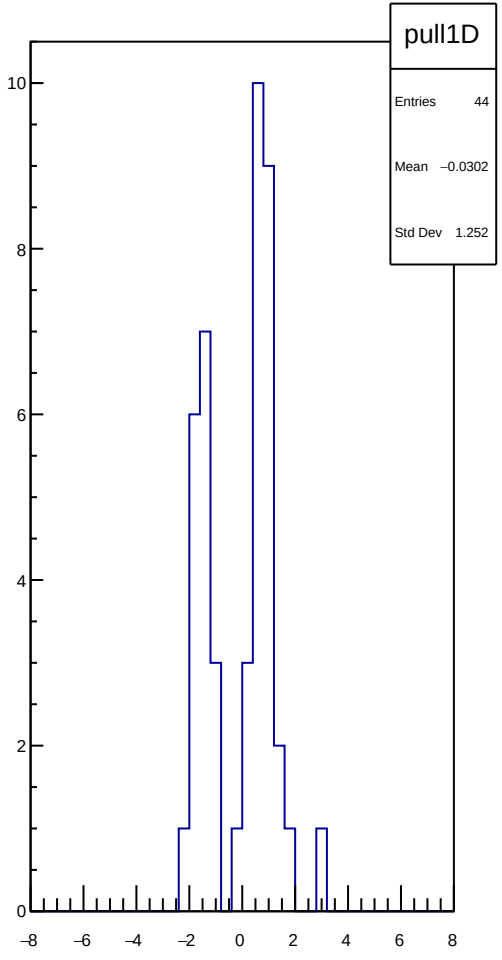

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 22.03 / 43
p0 −17.29 ± 2.037
pull
Entries 44
Mean −92.24
Std Dev 115.4
pull1D
Entries 44
Mean −0.05613
Std Dev 0.7054

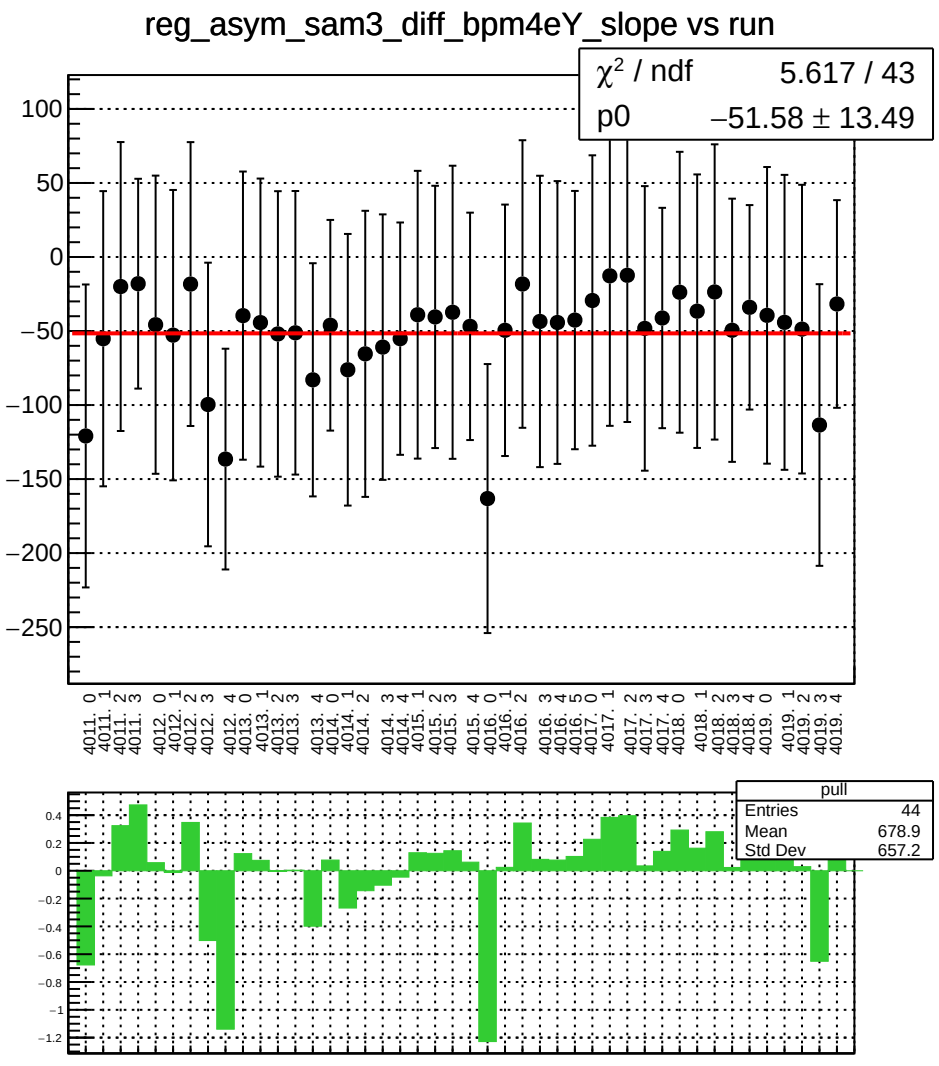

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 5.531 / 43
p0 213.5 ± 10.82
350
300
250
200
150
100
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 327.8
Std Dev 310.4
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

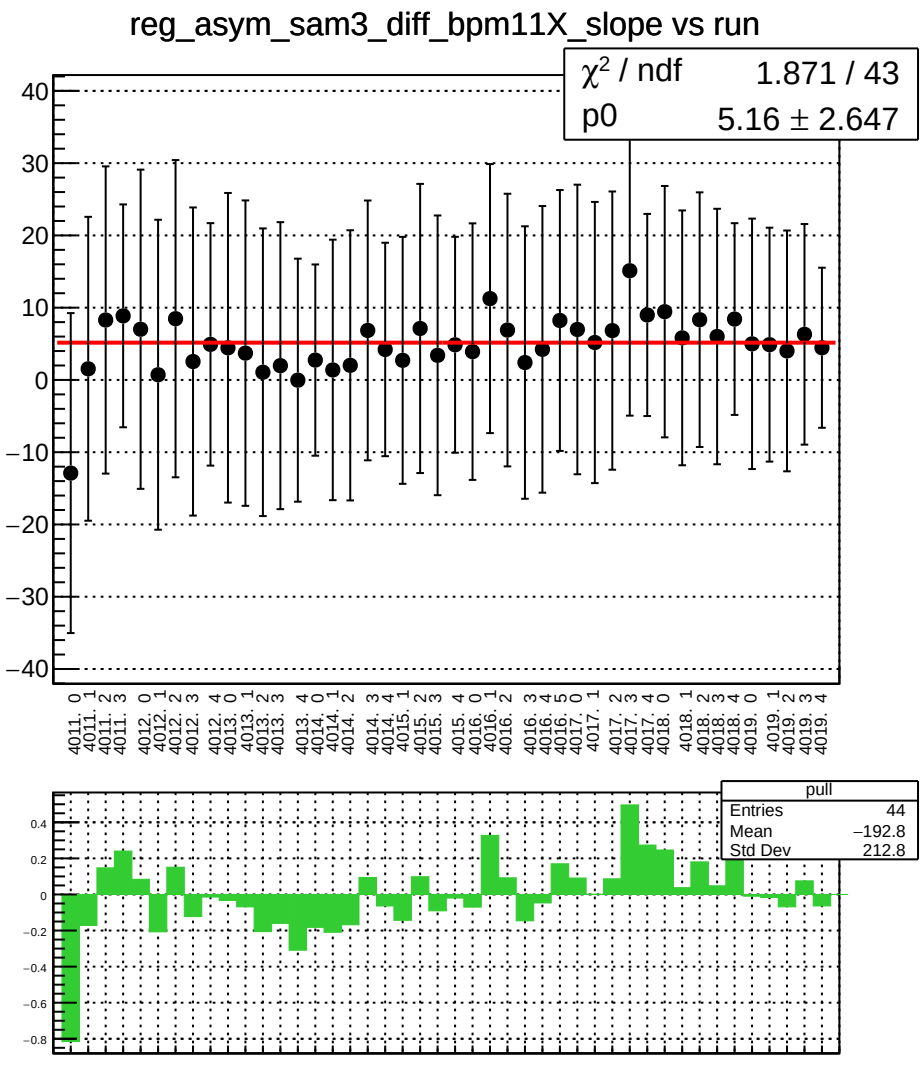

pull1D
Entries 44
Mean 0.004619
Std Dev 0.3545
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

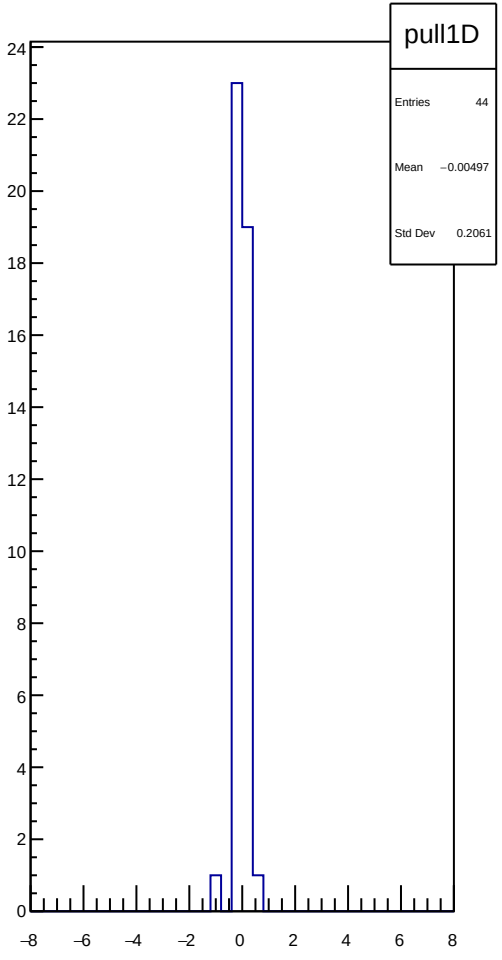

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 5.295 / 43
p0 28.59 ± 7.81
150
100
50
0
−50
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 347.9
Std Dev 326.1
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 44
Mean −0.002806
Std Dev 0.3469
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

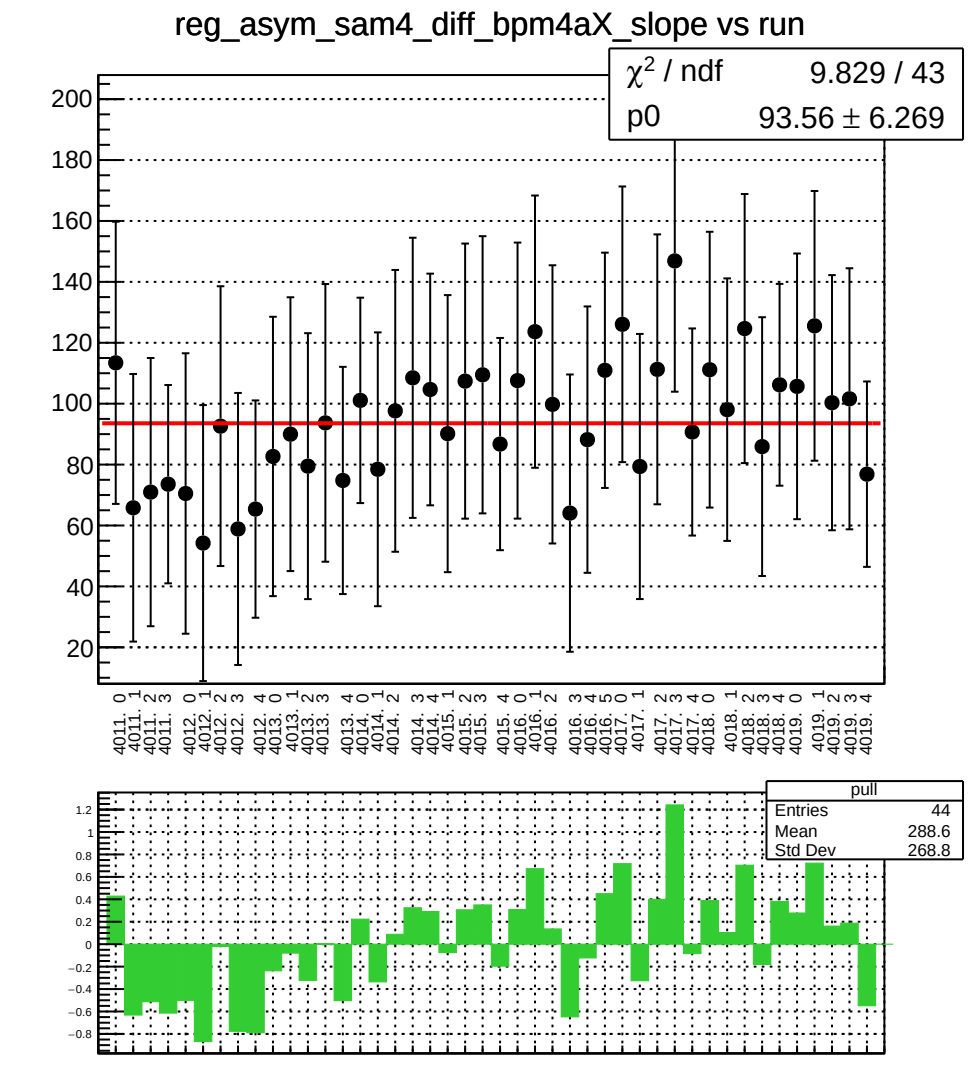

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 69 / 43
p0 −1024 ± 1.769
−990
−1000
−1010
−1020
−1030
−1040
−1050
−1060
−1070
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 410.3
Std Dev 386
3
2
1
0
−1
−2

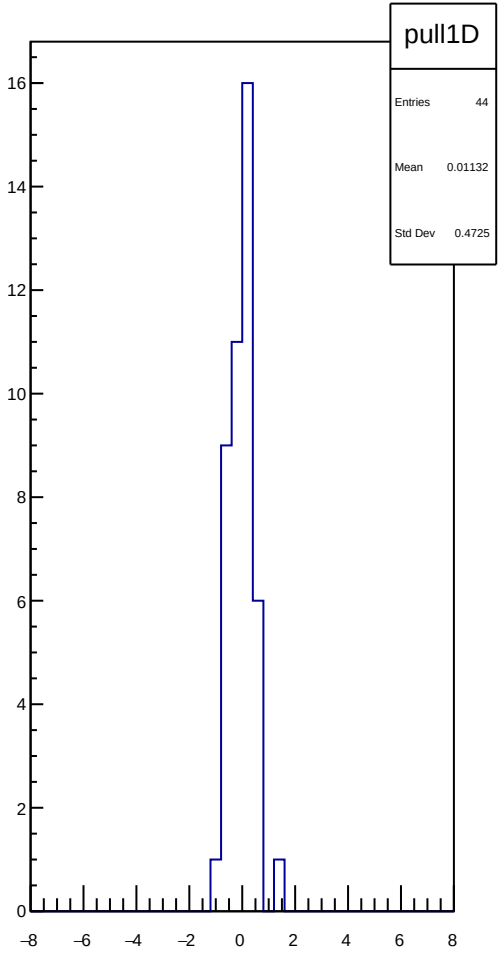

pull1D
Entries 44
Mean −0.0302
Std Dev 1.252
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

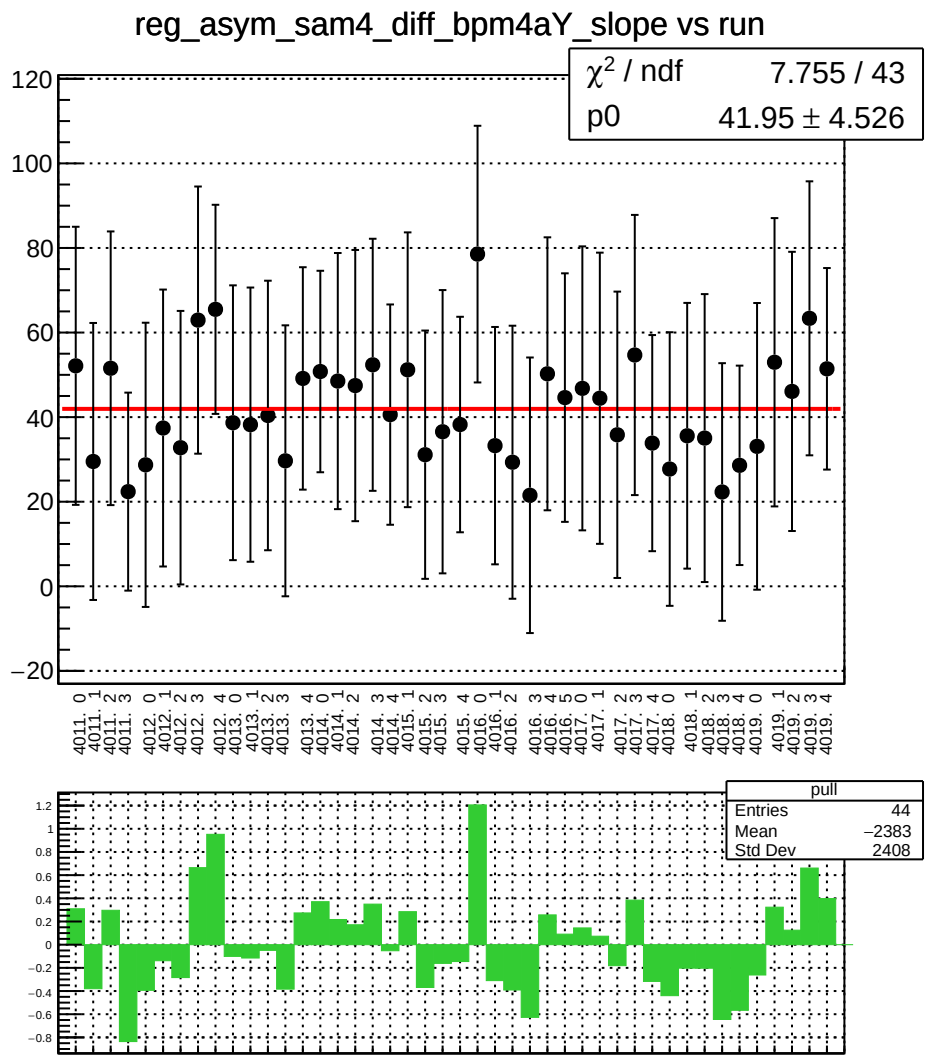

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 5.617 / 43
p0 −51.58 ± 13.49
100
50
0
−50
−100
−150
−200
−250
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 678.9
Std Dev 657.2
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 44
Mean 0.001473
Std Dev 0.3573
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

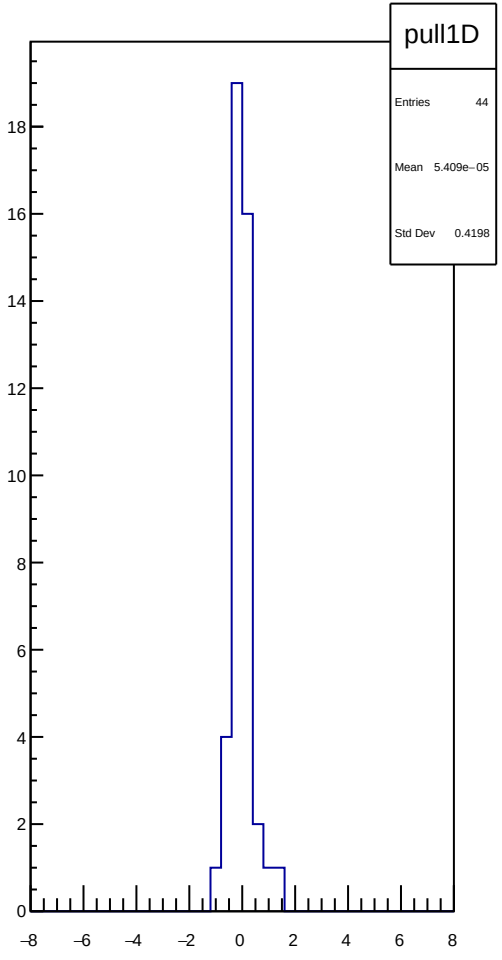

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 1.871 / 43
p0 5.16 ± 2.647
pull
Entries 44
Mean −192.8
Std Dev 212.8

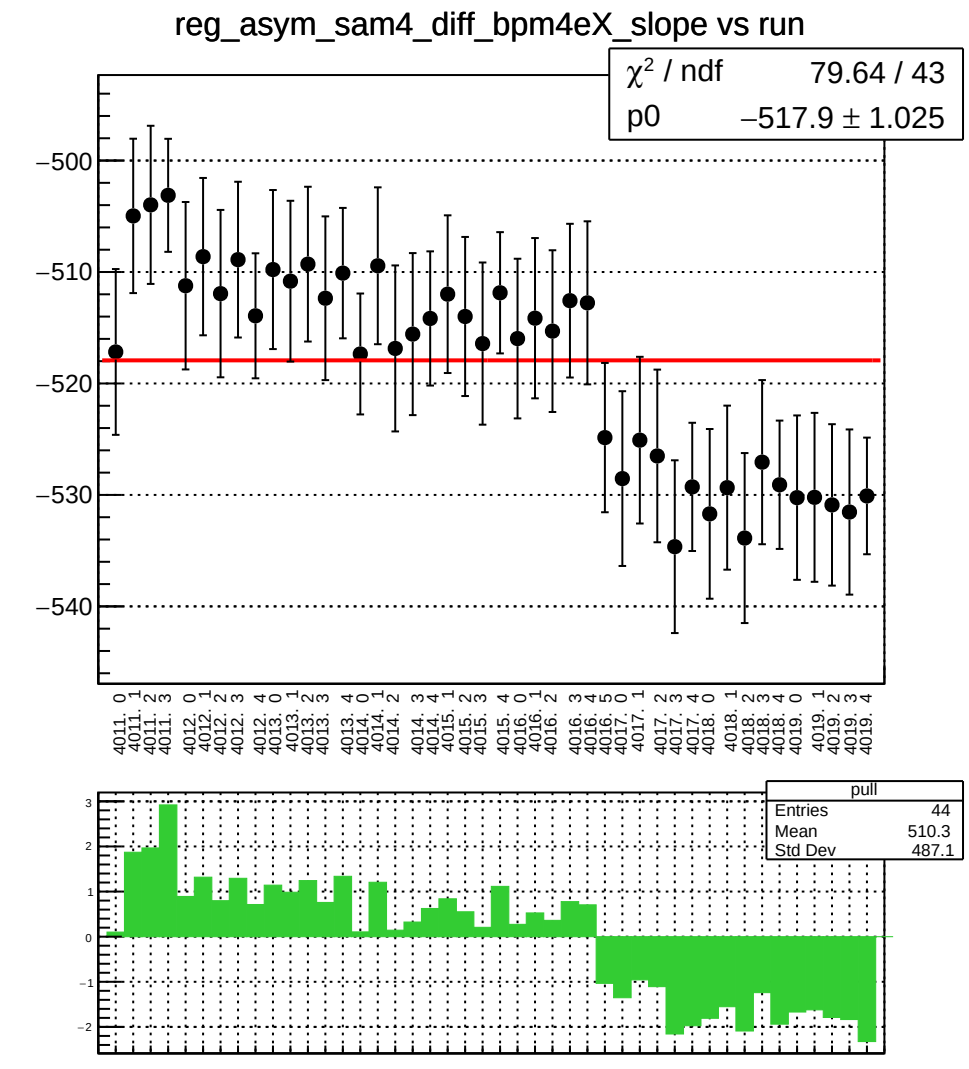

pull1D
Entries 44
Mean −0.00497
Std Dev 0.2061

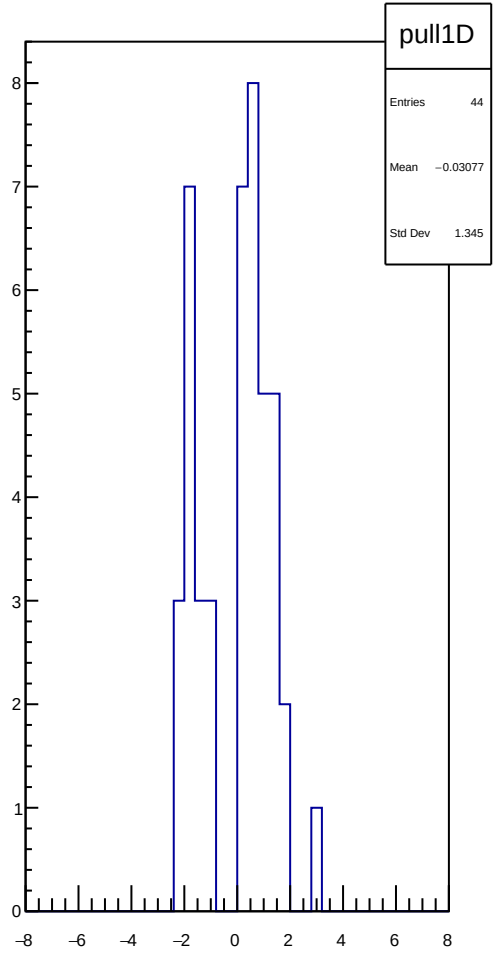

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 9.829 / 43
p0 93.56 ± 6.269
200
180
160
140
120
100
80
60
40
20
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 288.6
Std Dev 268.8
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

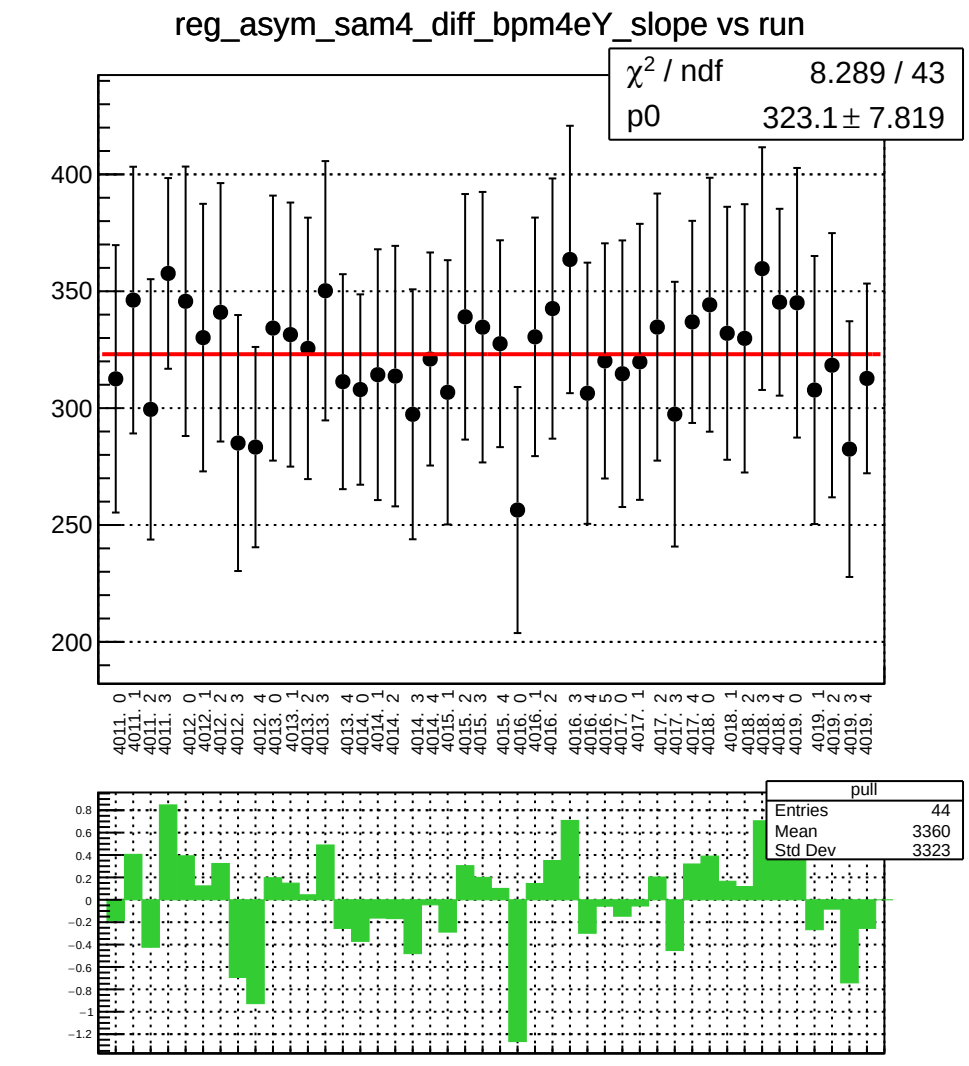

pull1D
Entries 44
Mean 0.01132
Std Dev 0.4725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

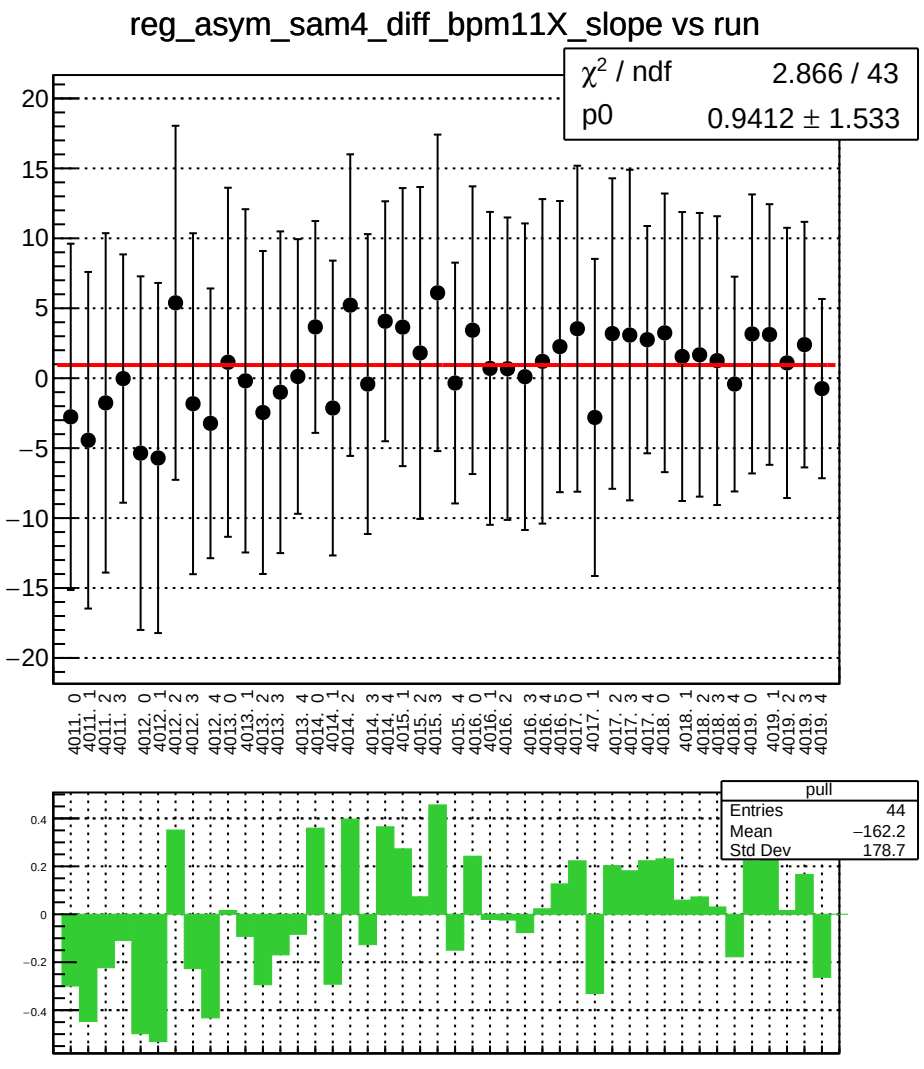

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 7.755 / 43
p0 41.95 ± 4.526
pull
Entries 44
Mean −2383
Std Dev 2408

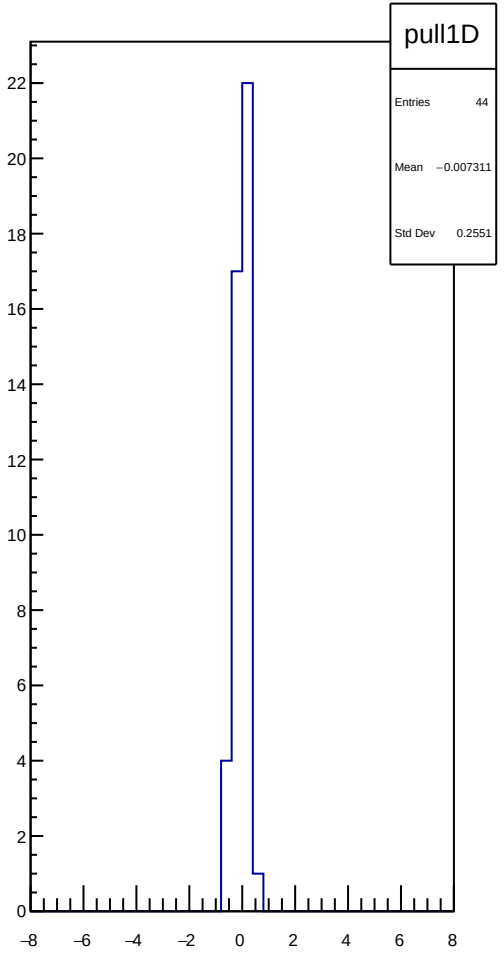

pull1D
Entries 44
Mean 5.409e−05
Std Dev 0.4198

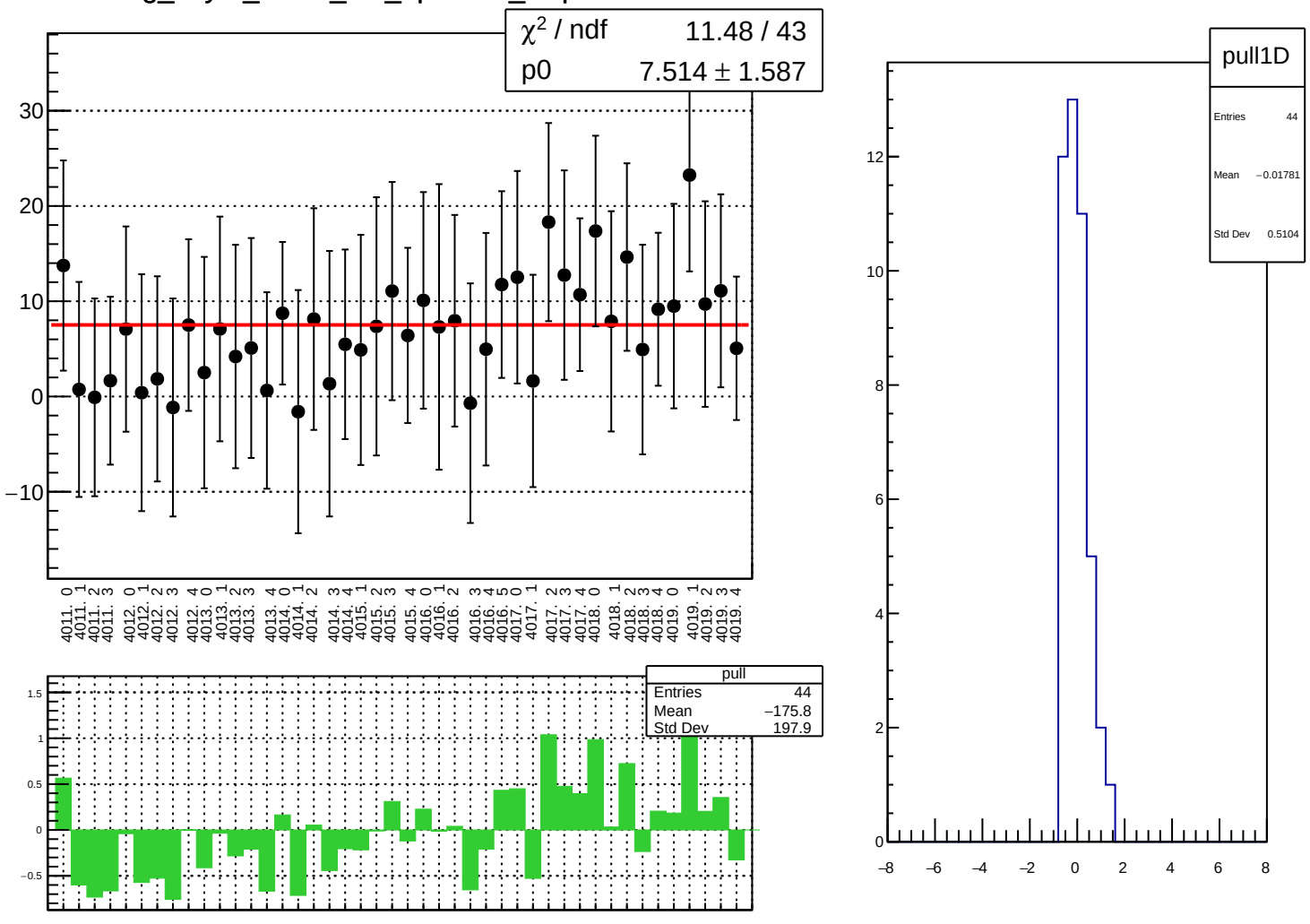

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 79.64 / 43
p0 −517.9 ± 1.025
−500
−510
−520
−530
−540
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 510.3
Std Dev 487.1
3
2
1
0
−1
−2

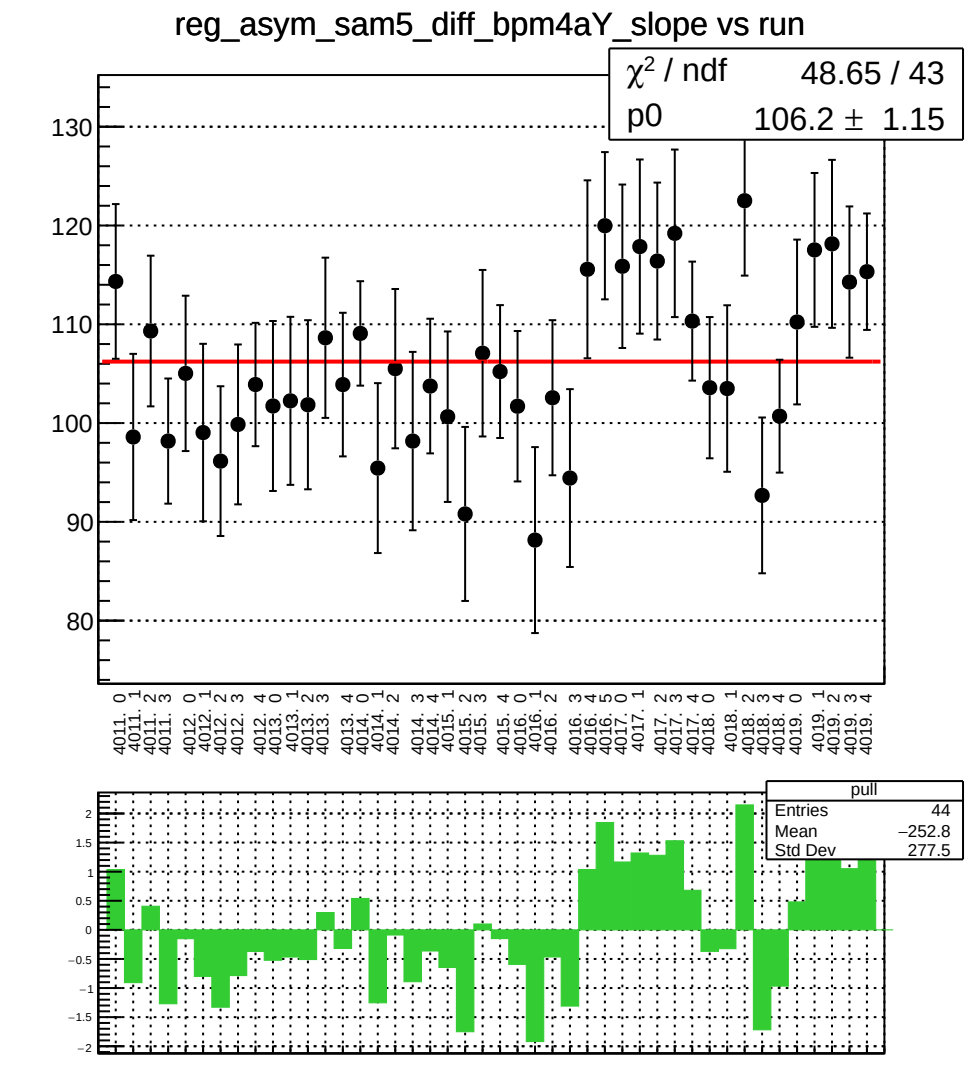

pull1D
Entries 44
Mean −0.03077
Std Dev 1.345
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

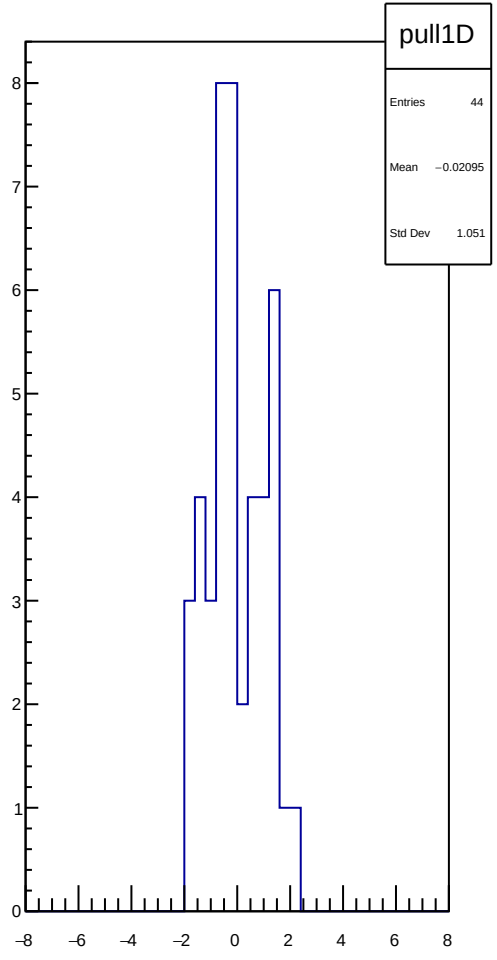

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 8.289 / 43
p0 323.1 ± 7.819
400
350
300
250
200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 3360
Std Dev 3323
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 44
Mean 3.77e−05
Std Dev 0.434
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

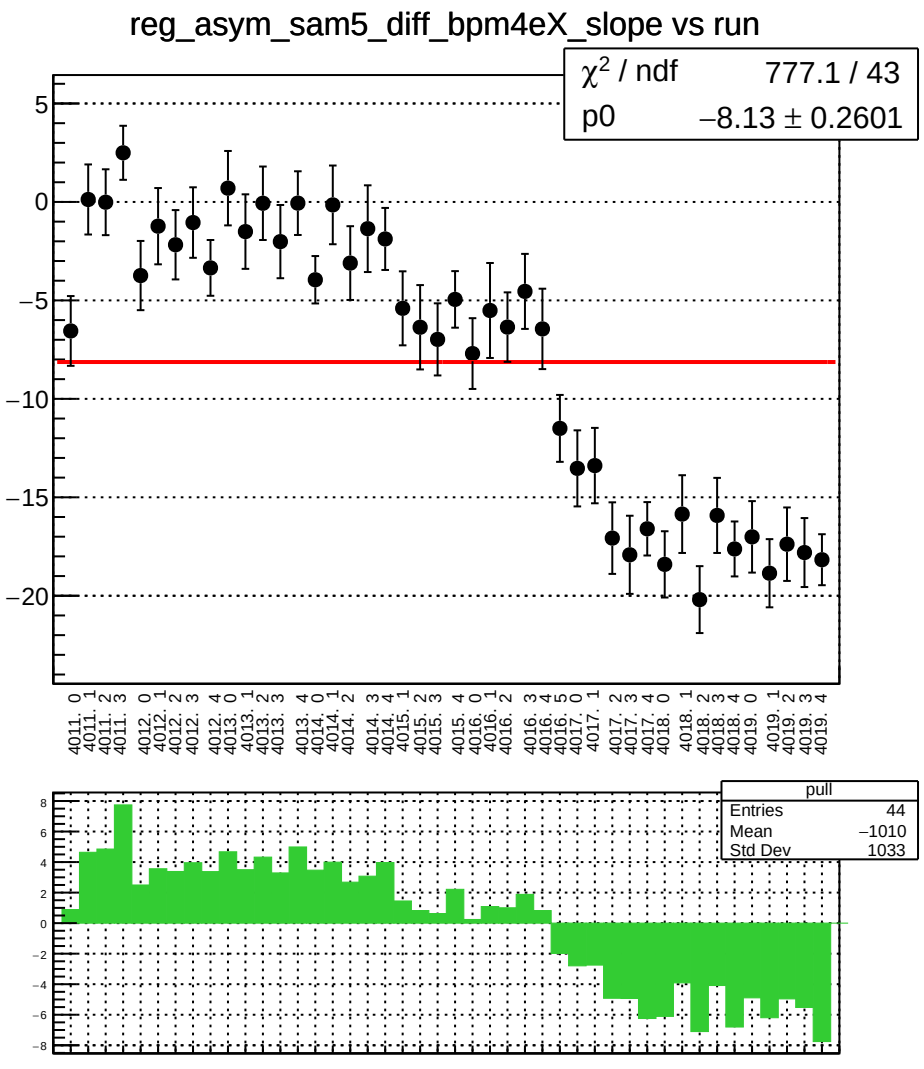

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 2.866 / 43
p0 0.9412 ± 1.533
pull
Entries 44
Mean −162.2
Std Dev 178.7

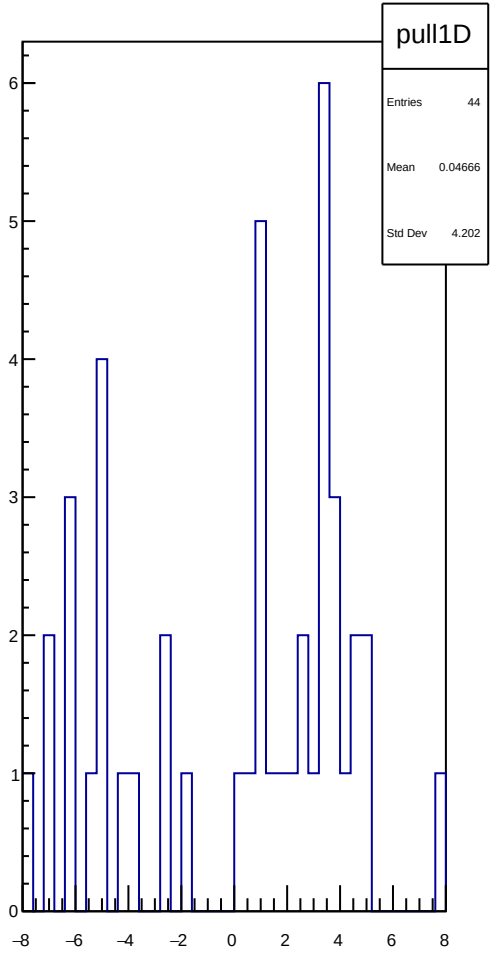

pull1D
Entries 44
Mean −0.007311
Std Dev 0.2551

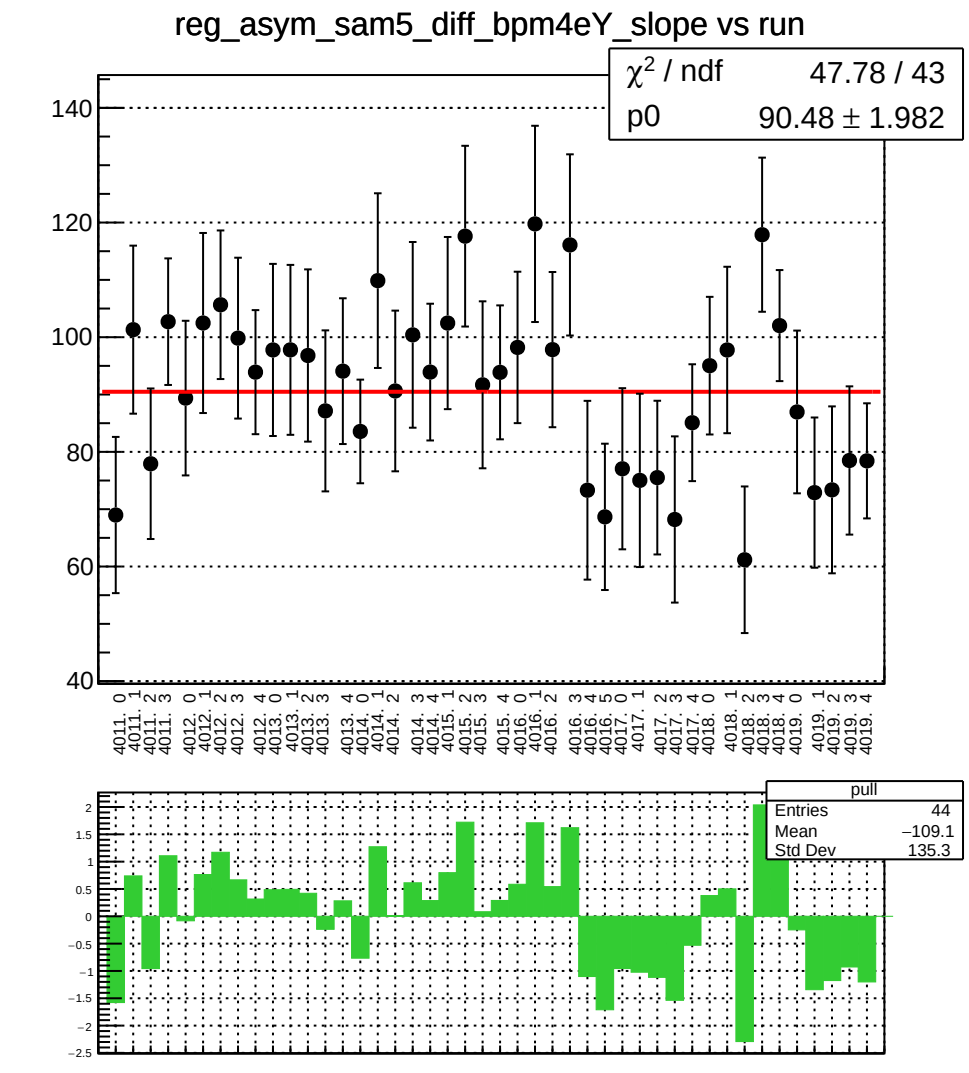

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 11.48 / 43
p0 7.514 ± 1.587
30
20
10
0
−10
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −175.8
Std Dev 197.9
1.5
1
0.5
0
−0.5
pull1D
Entries 44
Mean −0.01781
Std Dev 0.5104
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

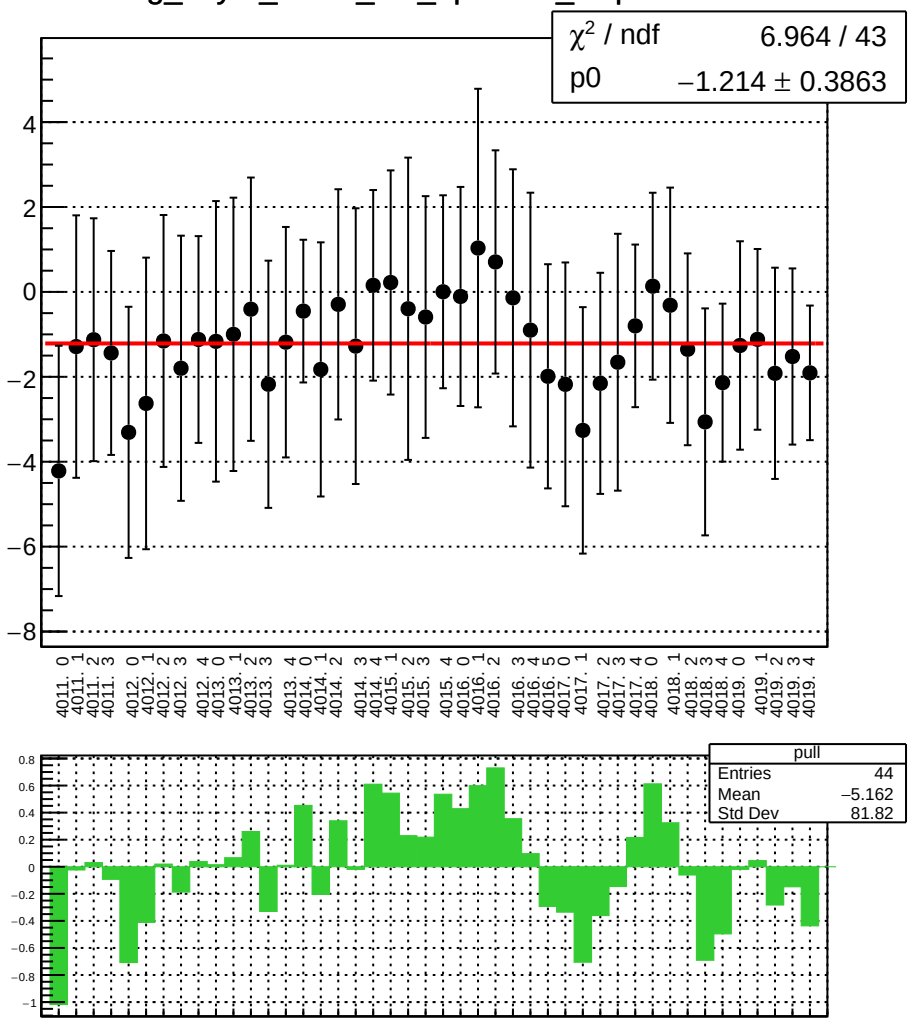

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 48.65 / 43
p0 106.2 ± 1.15
130
120
110
100
90
80
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −252.8
Std Dev 277.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

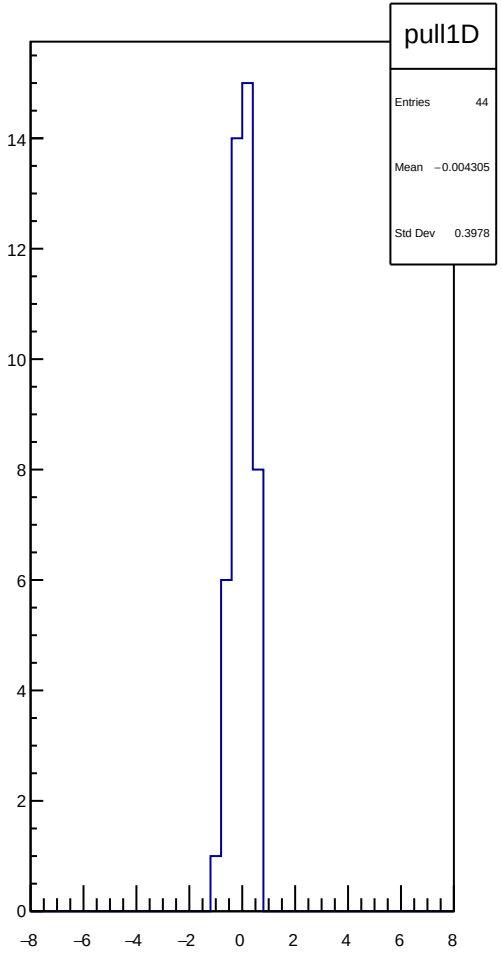

pull1D
Entries 44
Mean −0.02095
Std Dev 1.051
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

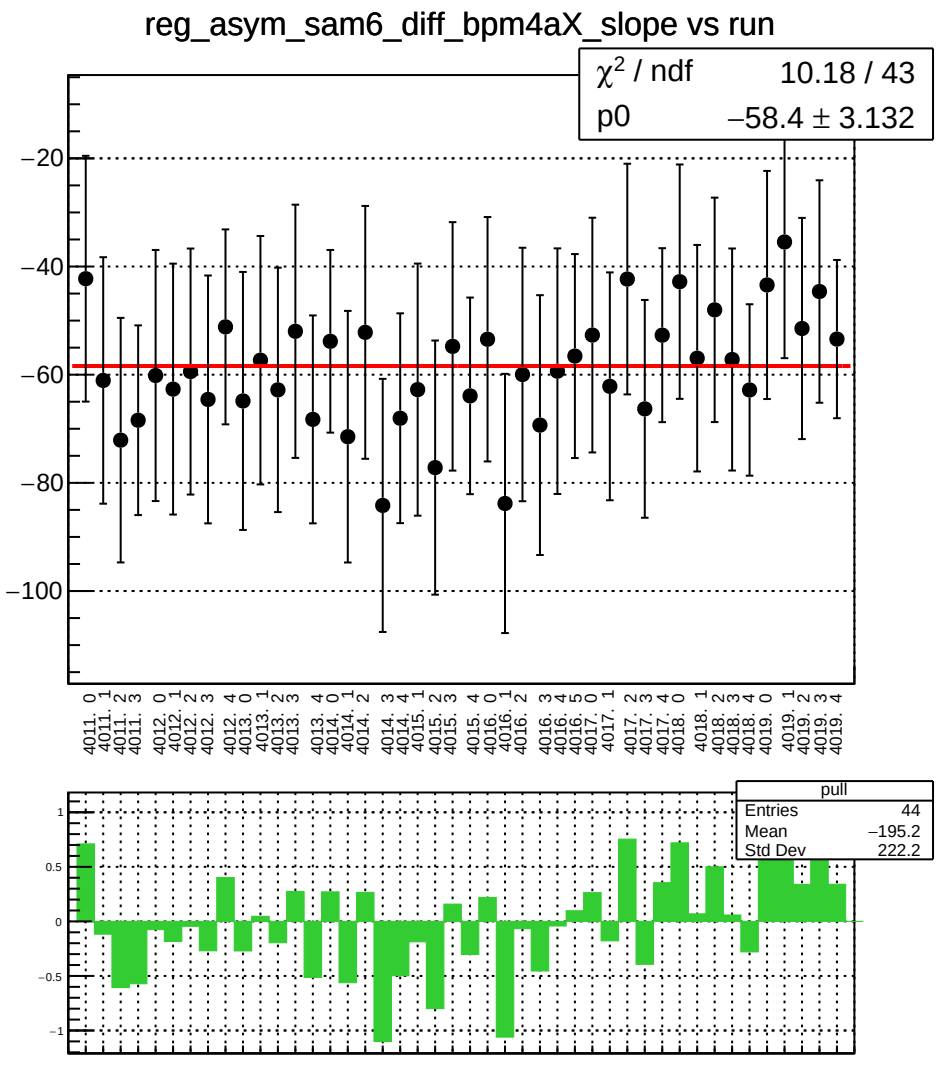

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 777.1 / 43
p0 −8.13 ± 0.2601
pull
Entries 44
Mean −1010
Std Dev 1033

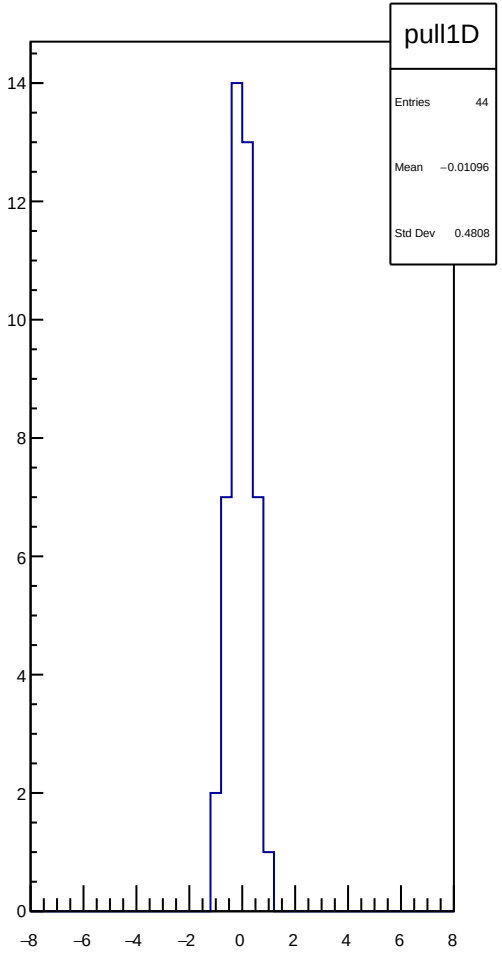

pull1D
Entries 44
Mean 0.04666
Std Dev 4.202

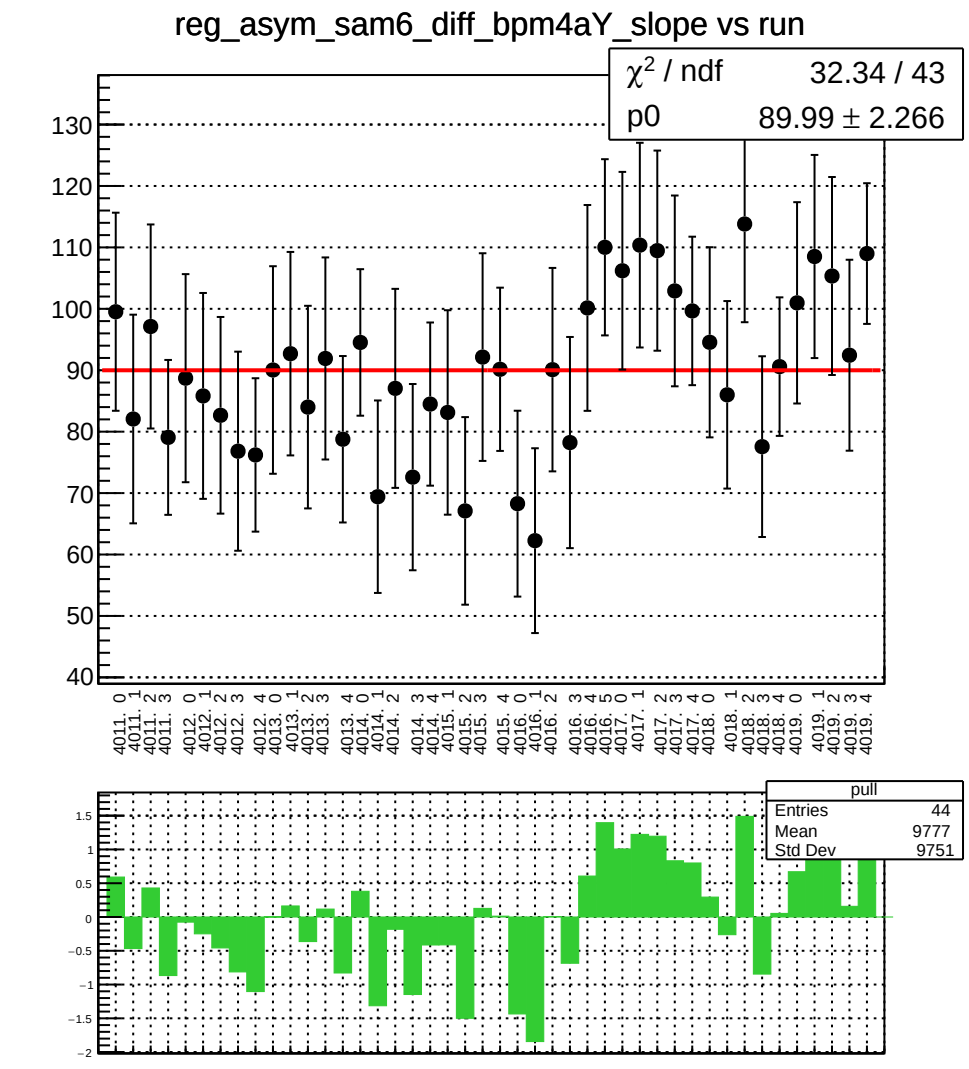

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 47.78 / 43
p0 90.48 ± 1.982
140
120
100
80
60
40
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −109.1
Std Dev 135.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 44
Mean 0.02988
Std Dev 1.042
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

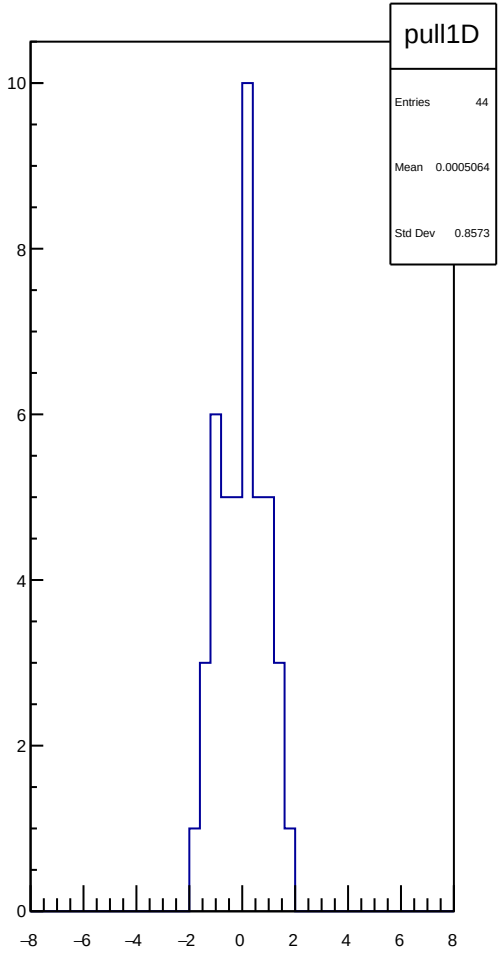

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 6.964 / 43
p0 −1.214 ± 0.3863
pull
Entries 44
Mean −5.162
Std Dev 81.82

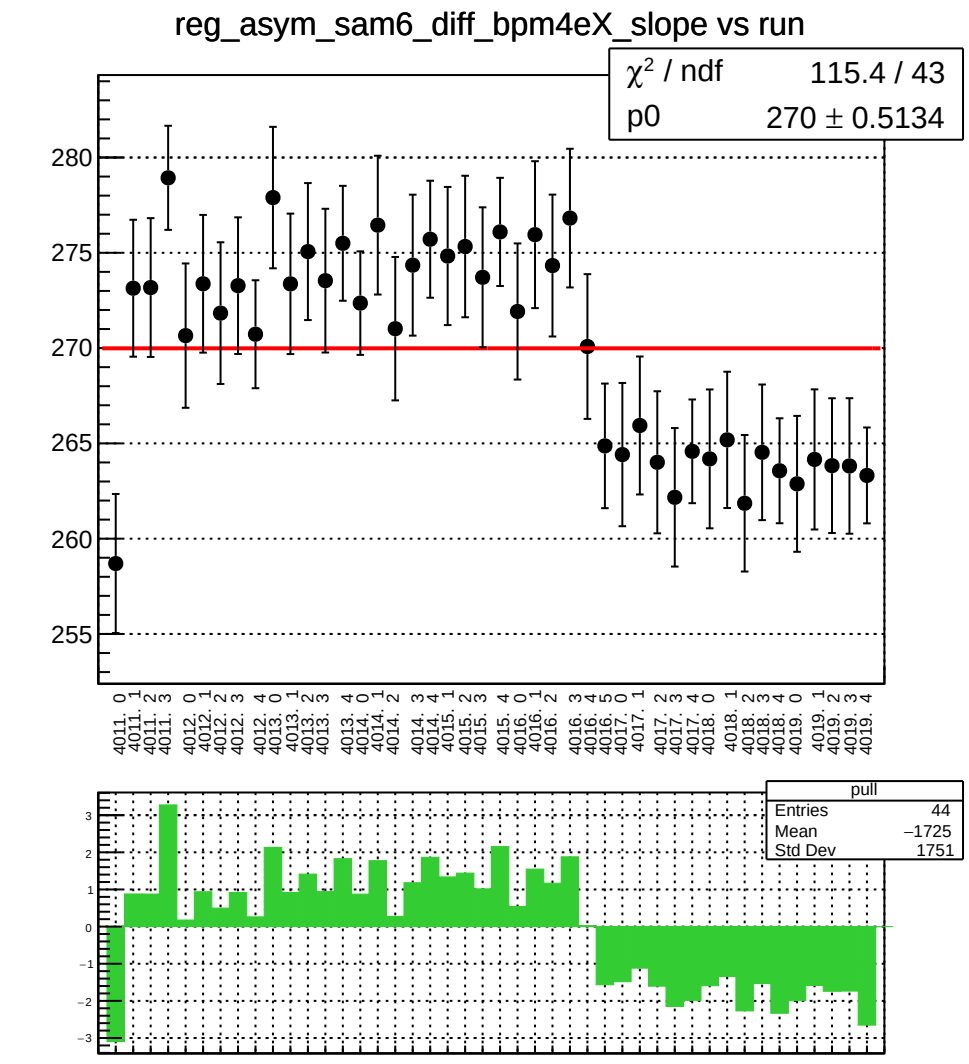

pull1D
Entries 44
Mean −0.004305
Std Dev 0.3978

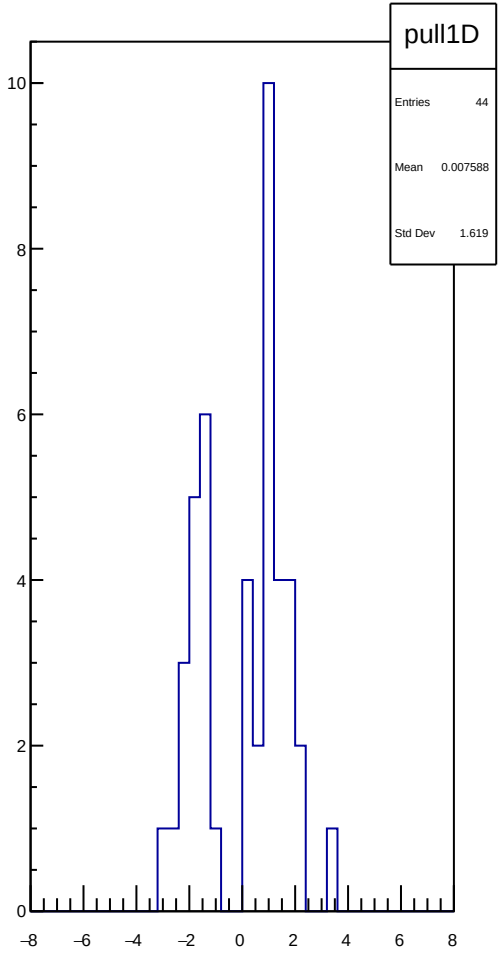

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 10.18 / 43
p0 −58.4 ± 3.132
−20
−40
−60
−80
−100
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −195.2
Std Dev 222.2
1
0.5
0
−0.5
−1

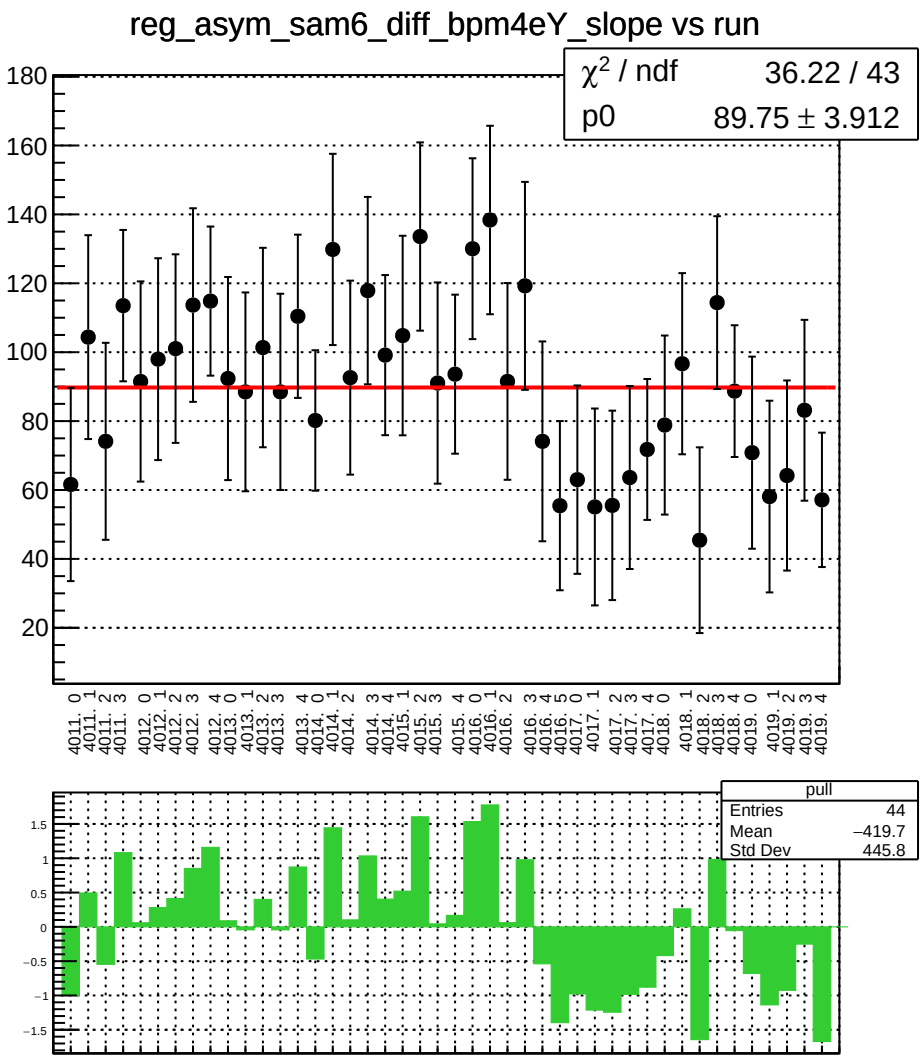

pull1D
Entries 44
Mean −0.01096
Std Dev 0.4808
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

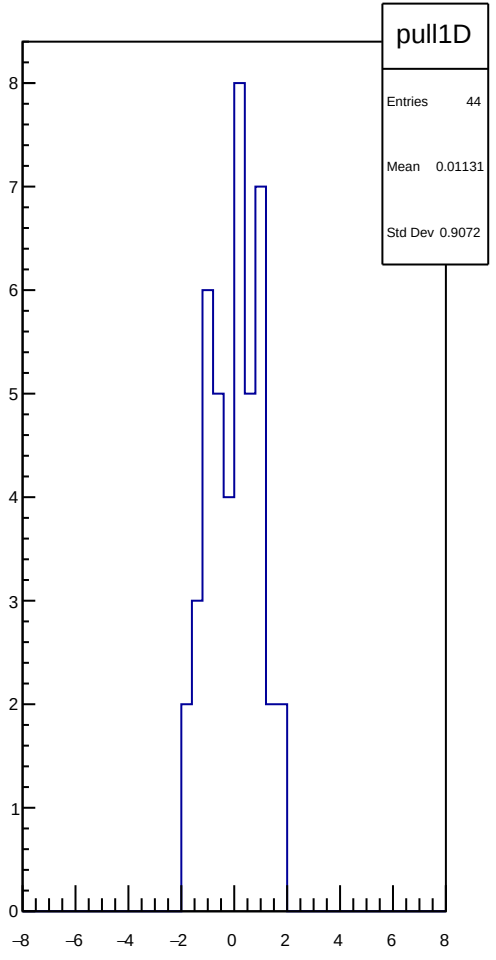

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 32.34 / 43
p0 89.99 ± 2.266
pull
Entries 44
Mean 9777
Std Dev 9751

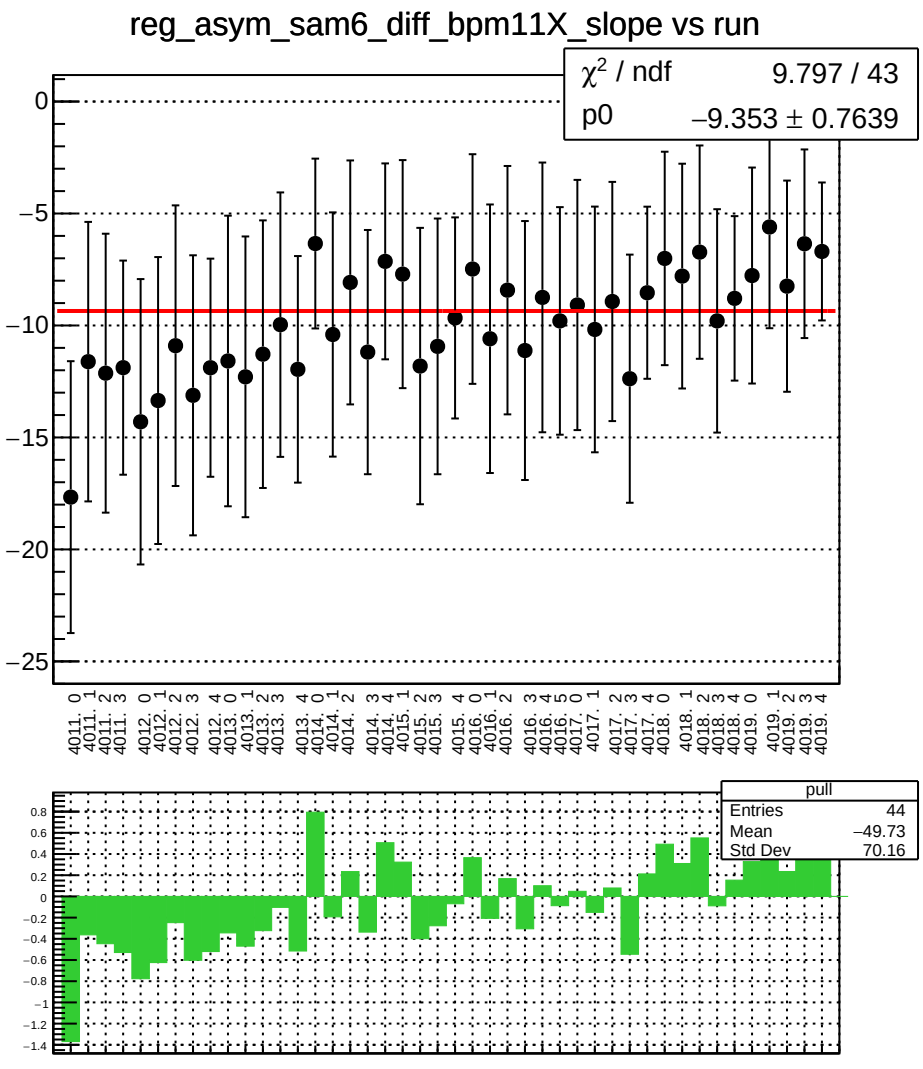

pull1D
Entries 44
Mean 0.0005064
Std Dev 0.8573

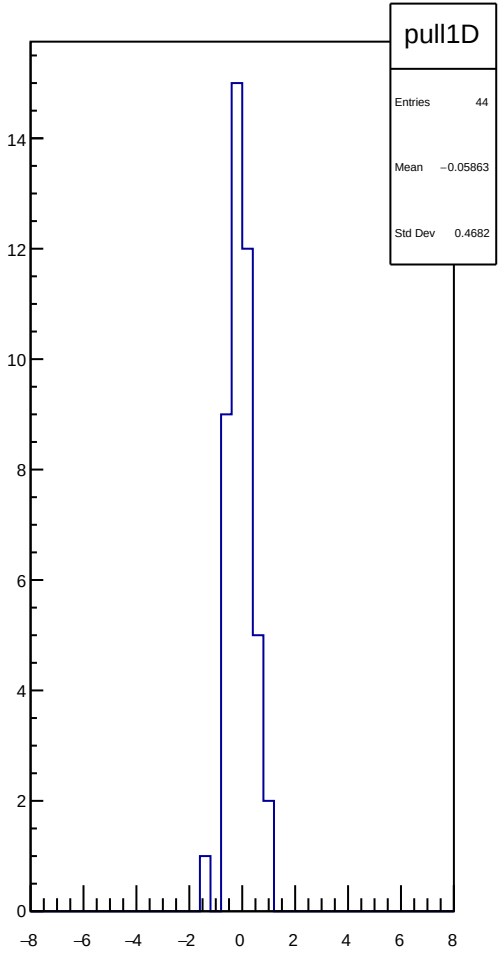

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 115.4 / 43
p0 270 ± 0.5134
280
275
270
265
260
255
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −1725
Std Dev 1751
3
2
1
0
−1
−2
−3

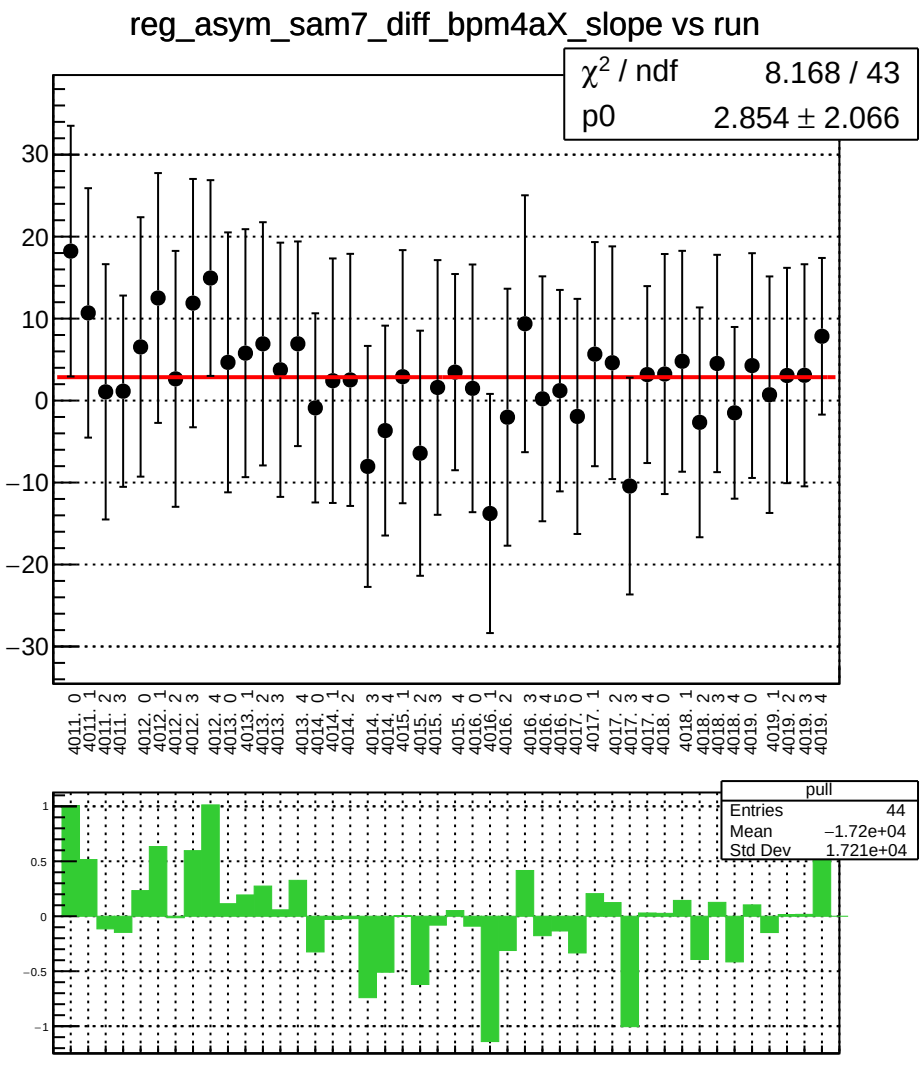

pull1D
Entries 44
Mean 0.007588
Std Dev 1.619
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

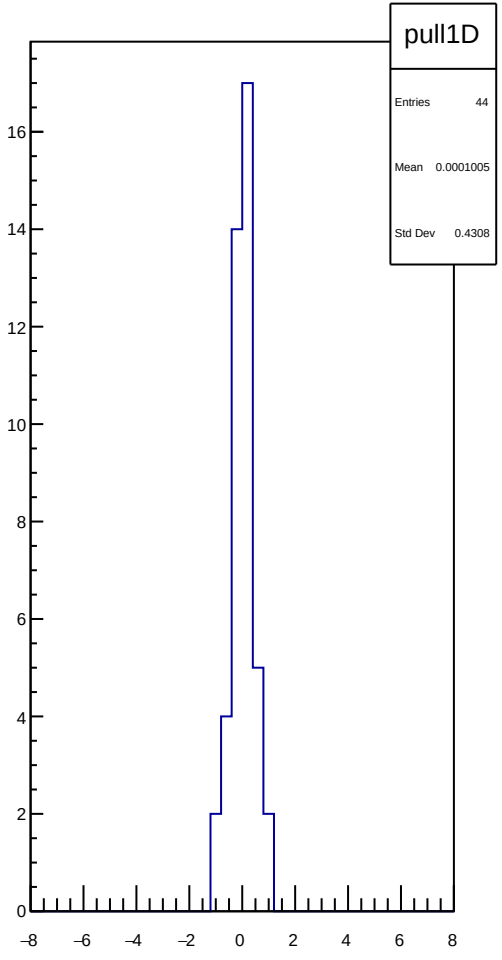

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 36.22 / 43
p0 89.75 ± 3.912
180
160
140
120
100
80
60
40
20
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −419.7
Std Dev 445.8
1.5
1
0.5
0
−0.5
−1
−1.5

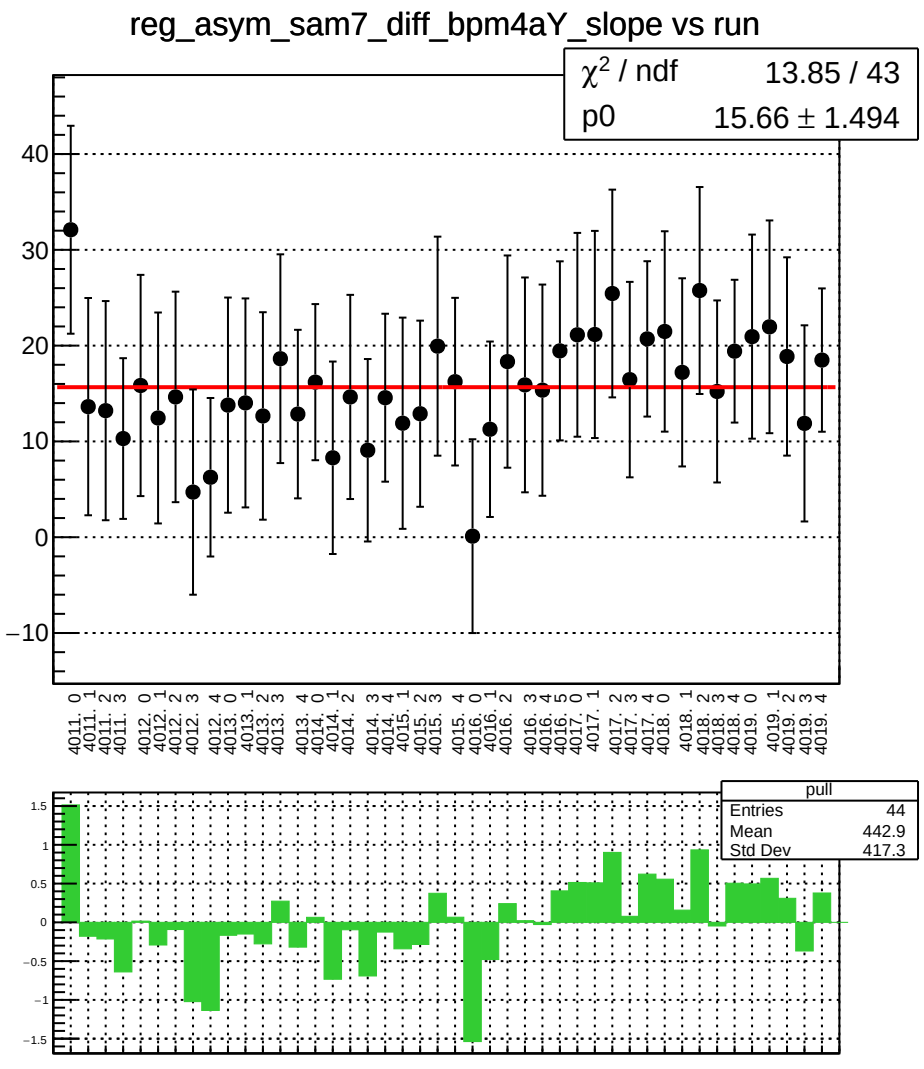

pull1D
Entries 44
Mean 0.01131
Std Dev 0.9072
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

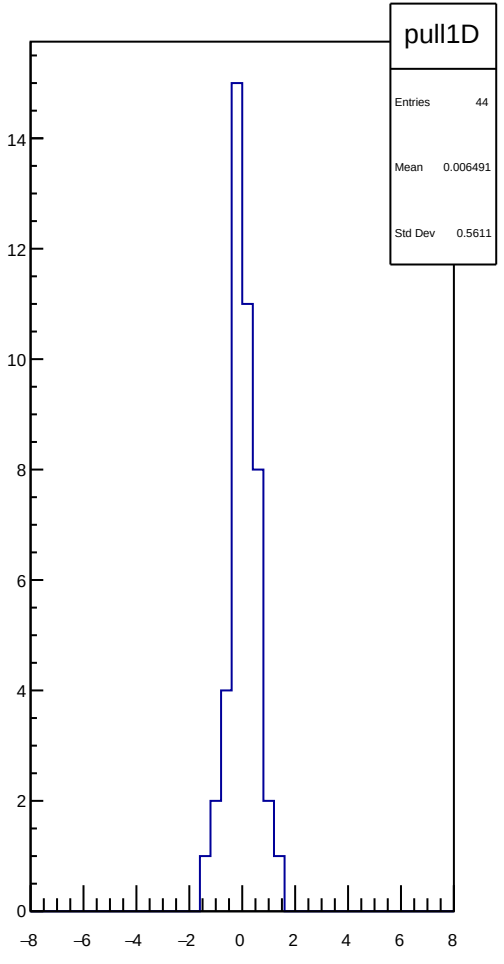

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 9.797 / 43
p0 −9.353 ± 0.7639
pull
Entries 44
Mean −49.73
Std Dev 70.16

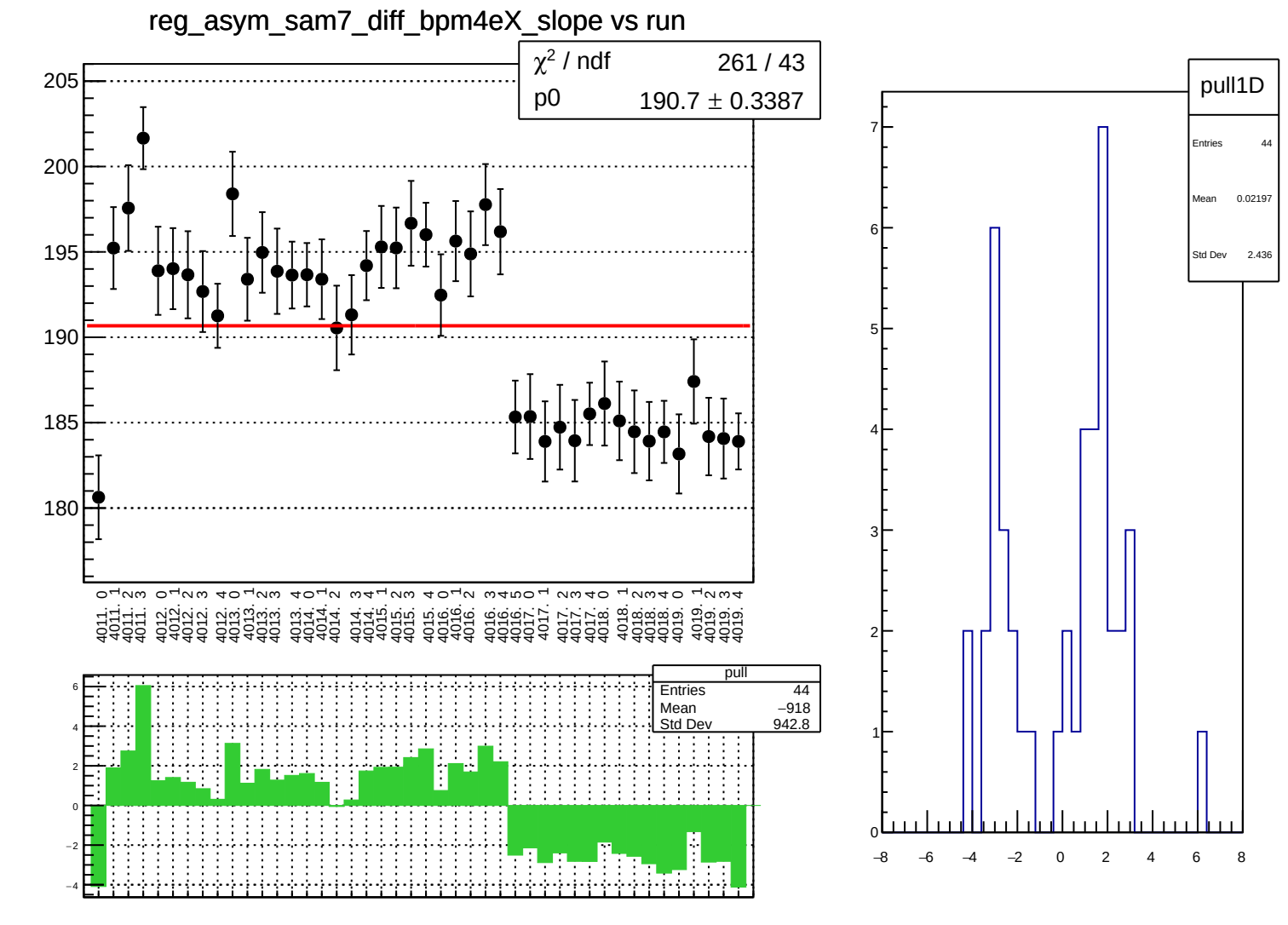

pull1D
Entries 44
Mean −0.05863
Std Dev 0.4682

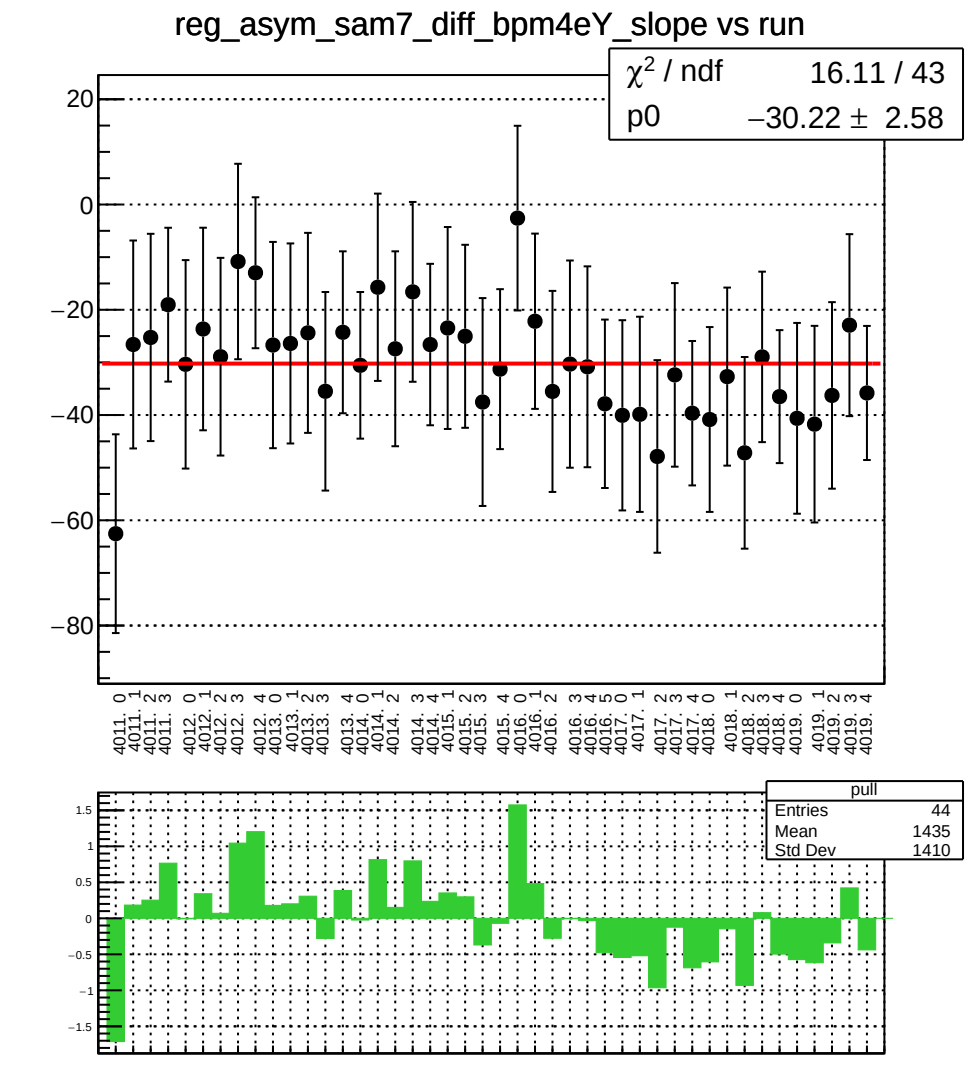

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 8.168 / 43
p0 2.854 ± 2.066
pull
Entries 44
Mean −1.72e+04
Std Dev 1.721e+04

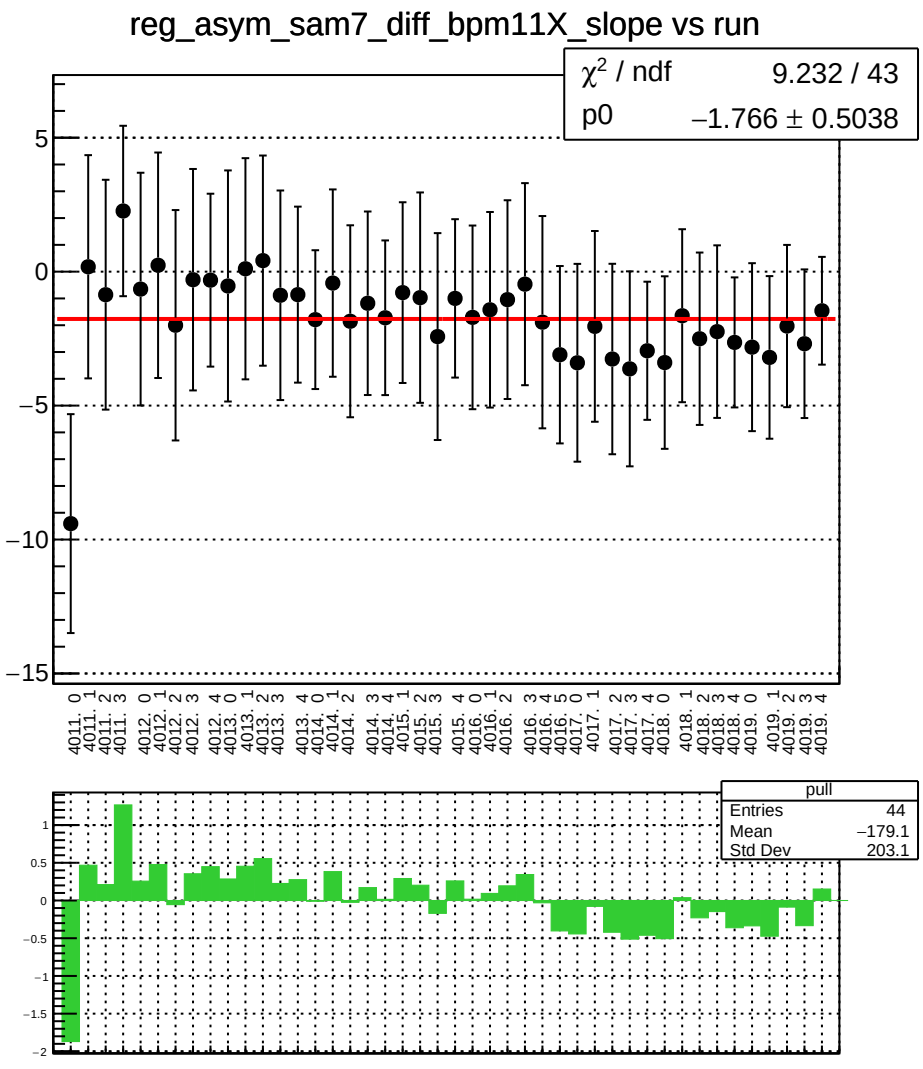

pull1D
Entries 44
Mean 0.0001005
Std Dev 0.4308

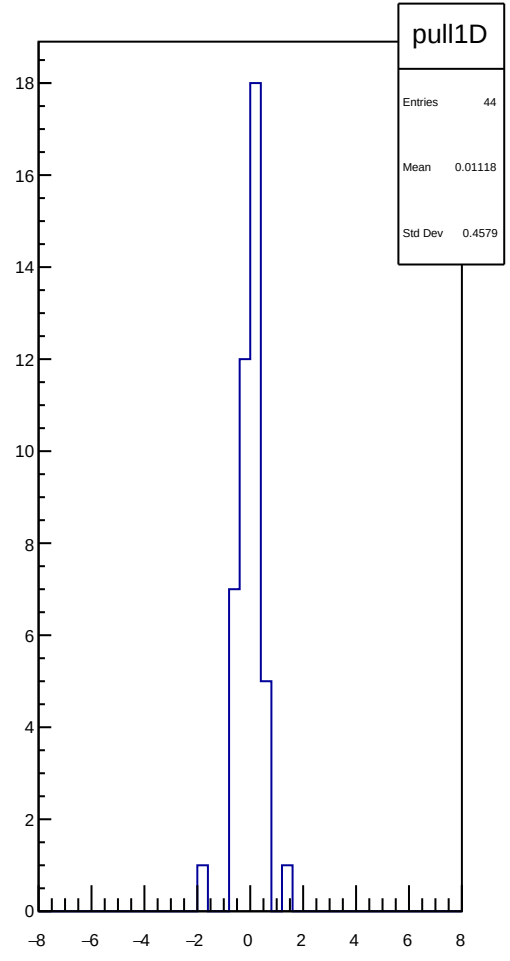

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 13.85 / 43
p0 15.66 ± 1.494
pull
Entries 44
Mean 442.9
Std Dev 417.3

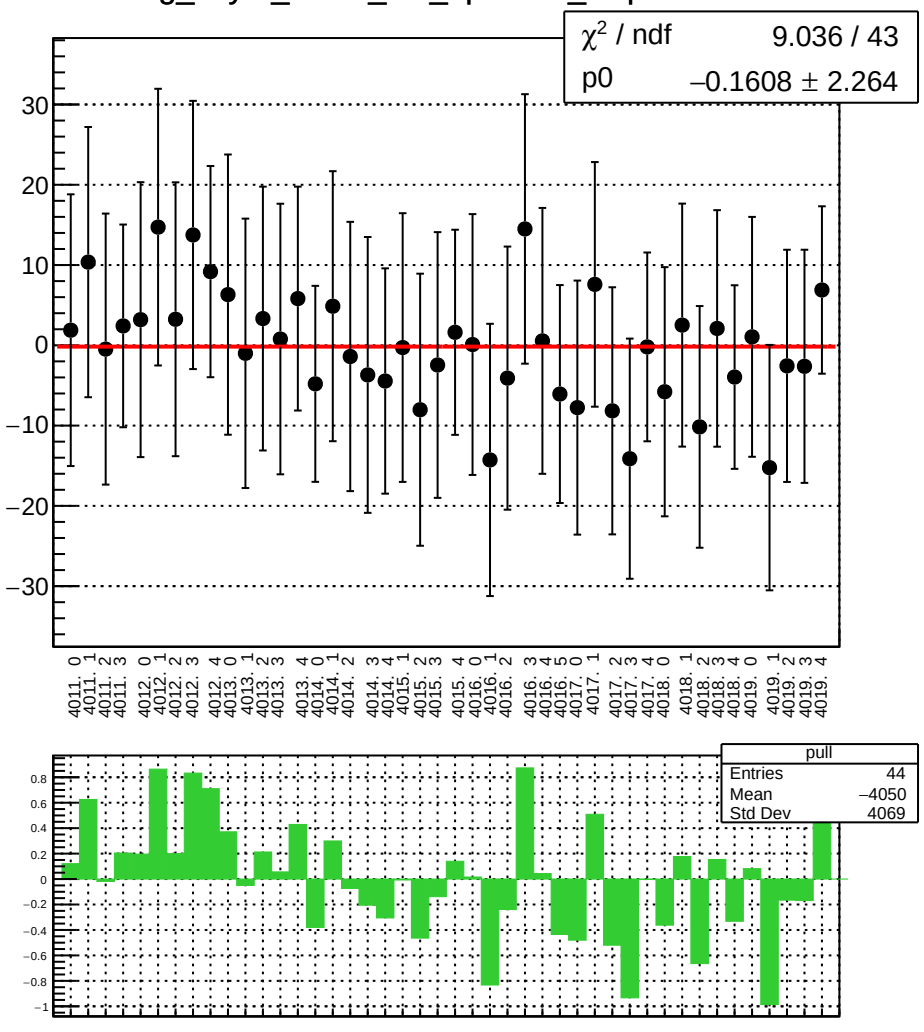

pull1D
Entries 44
Mean 0.006491
Std Dev 0.5611

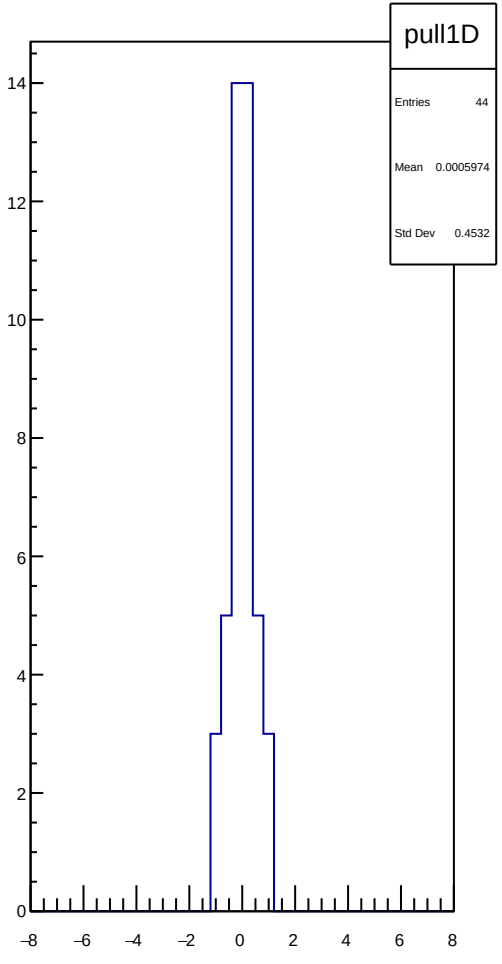

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 261 / 43
p0 190.7 ± 0.3387
205
200
195
190
185
180
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −918
Std Dev 942.8
6
4
2
0
−2
−4
pull1D
Entries 44
Mean 0.02197
Std Dev 2.436
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

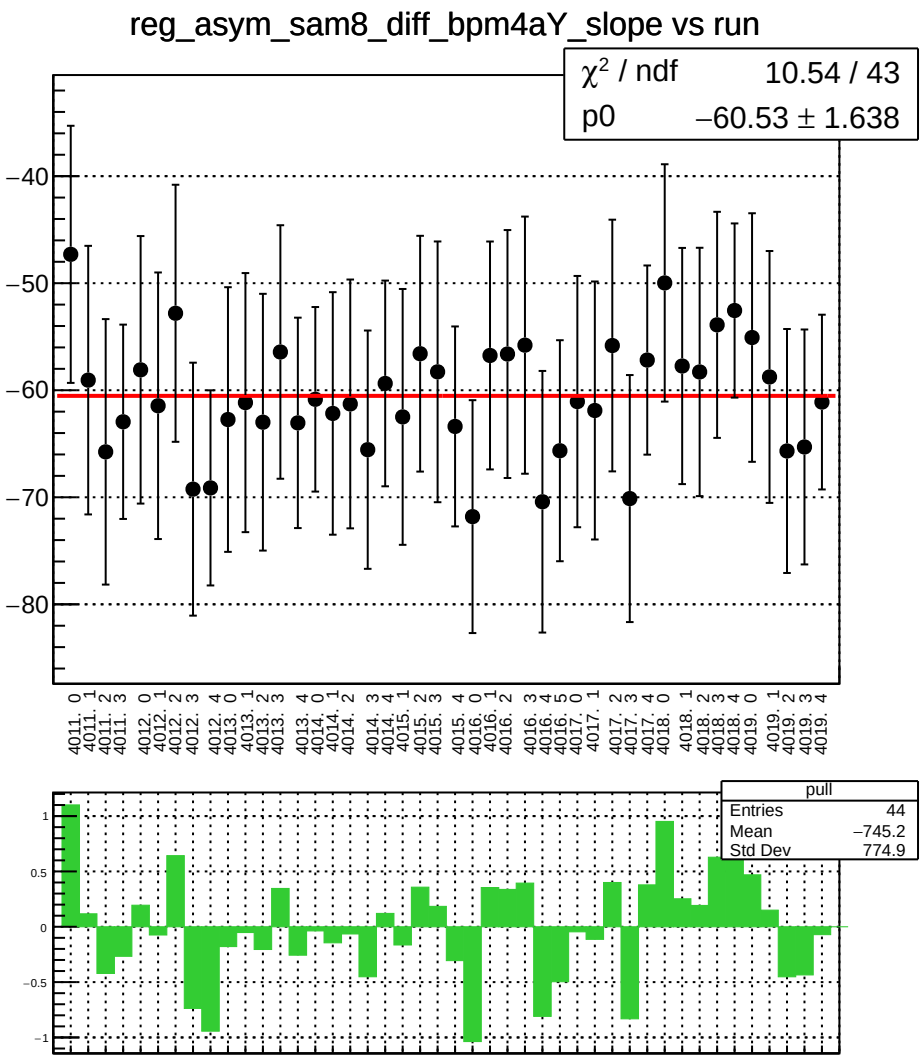

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 16.11 / 43
p0 −30.22 ± 2.58
20
0
−20
−40
−60
−80
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 1435
Std Dev 1410
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean −0.002097
Std Dev 0.6051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

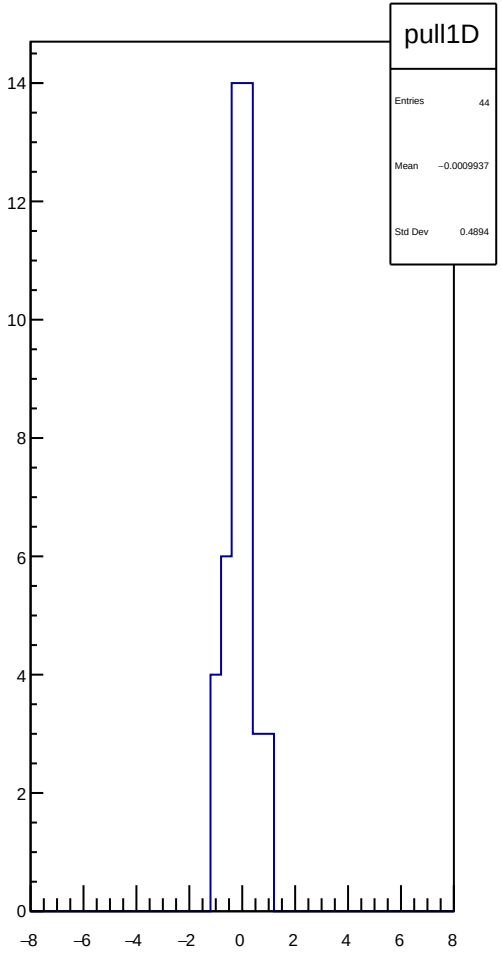

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 9.232 / 43
p0 −1.766 ± 0.5038
pull
Entries 44
Mean −179.1
Std Dev 203.1

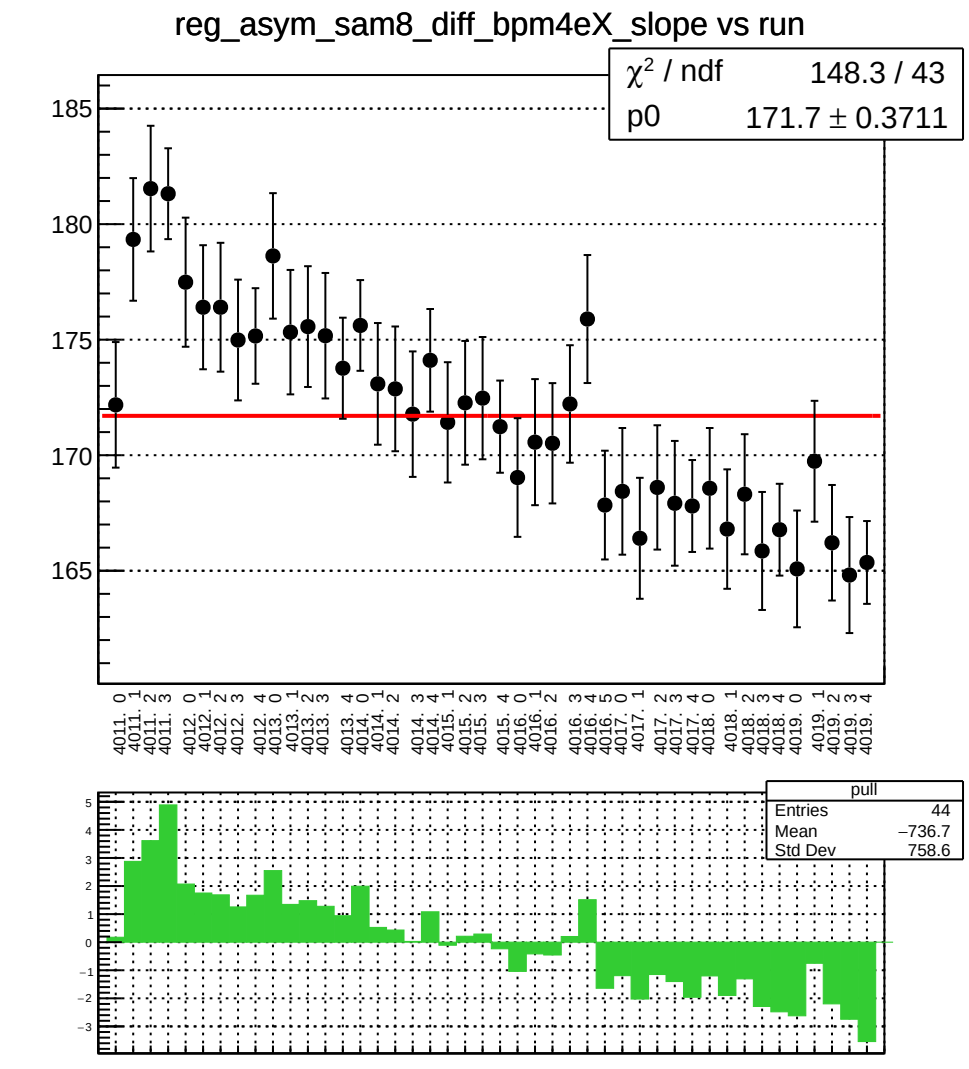

pull1D
Entries 44
Mean 0.01118
Std Dev 0.4579

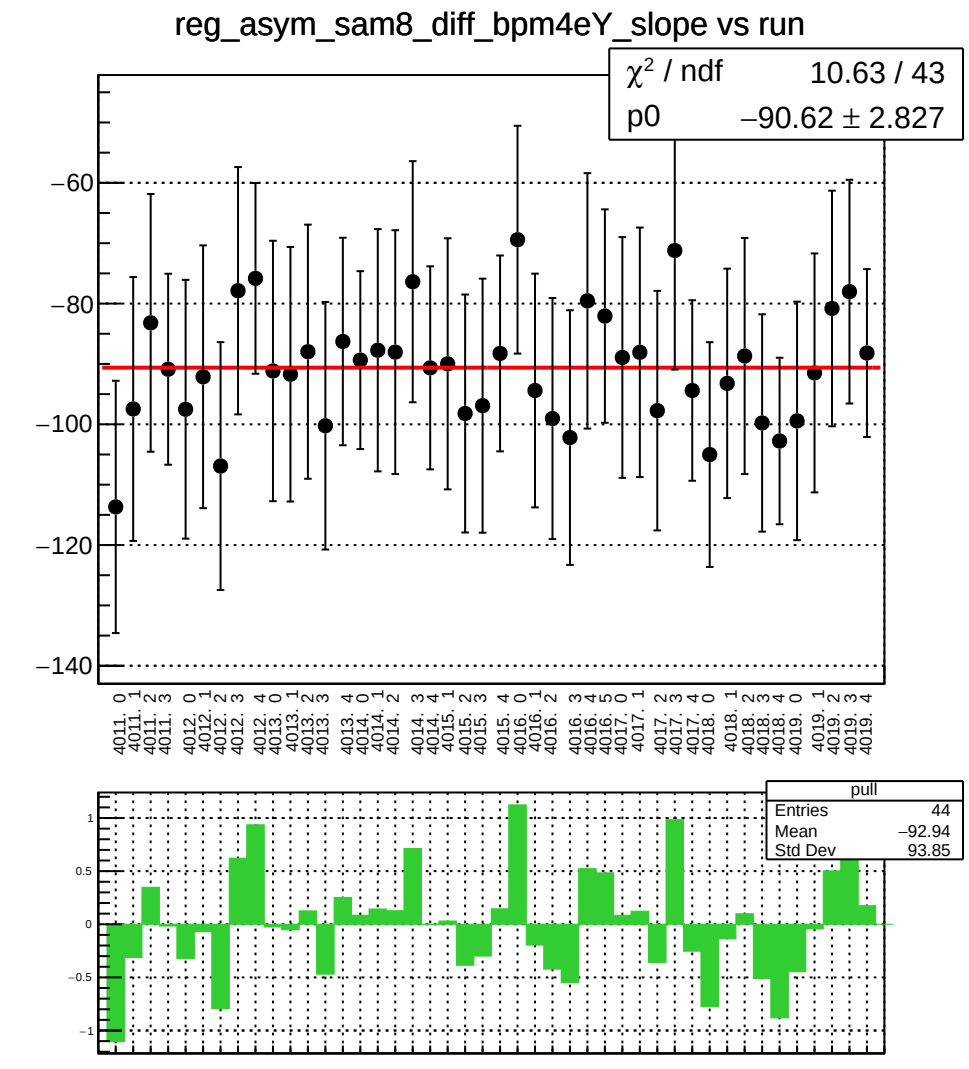

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 9.036 / 43
p0 −0.1608 ± 2.264
pull
Entries 44
Mean −4050
Std Dev 4069

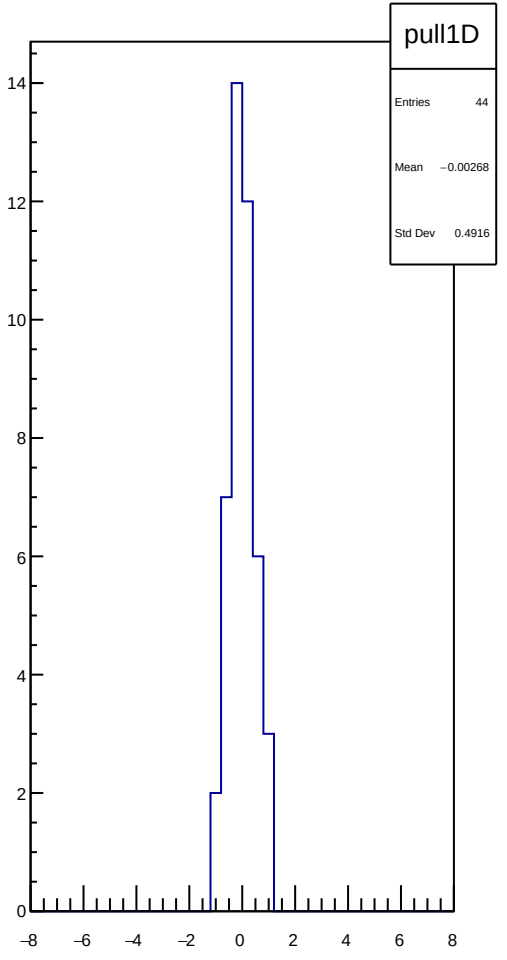

pull1D
Entries 44
Mean 0.0005974
Std Dev 0.4532

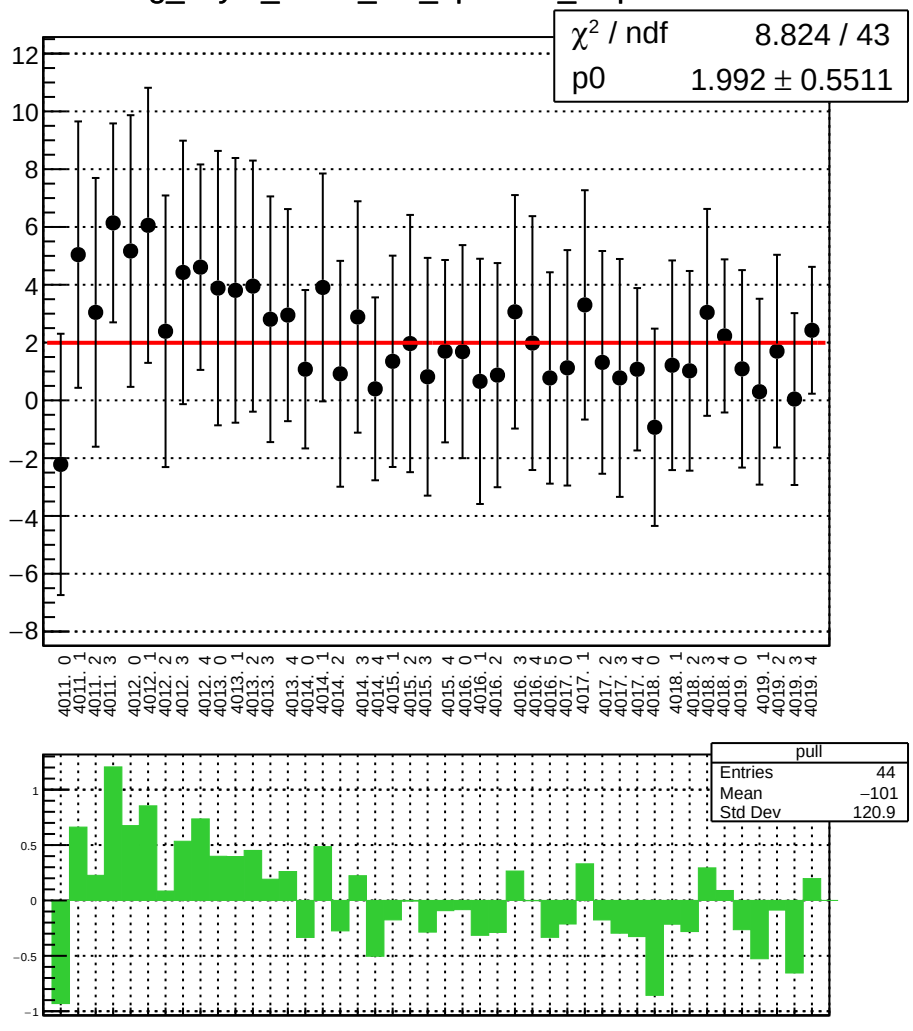

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 10.54 / 43
p0 −60.53 ± 1.638
−40
−50
−60
−70
−80
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −745.2
Std Dev 774.9
1
0.5
0
−0.5
−1

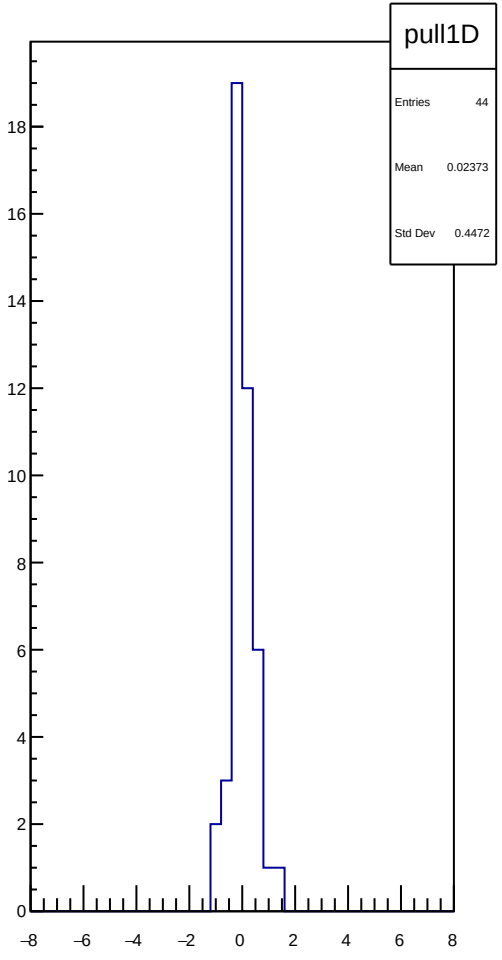

pull1D
Entries 44
Mean −0.0009937
Std Dev 0.4894
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

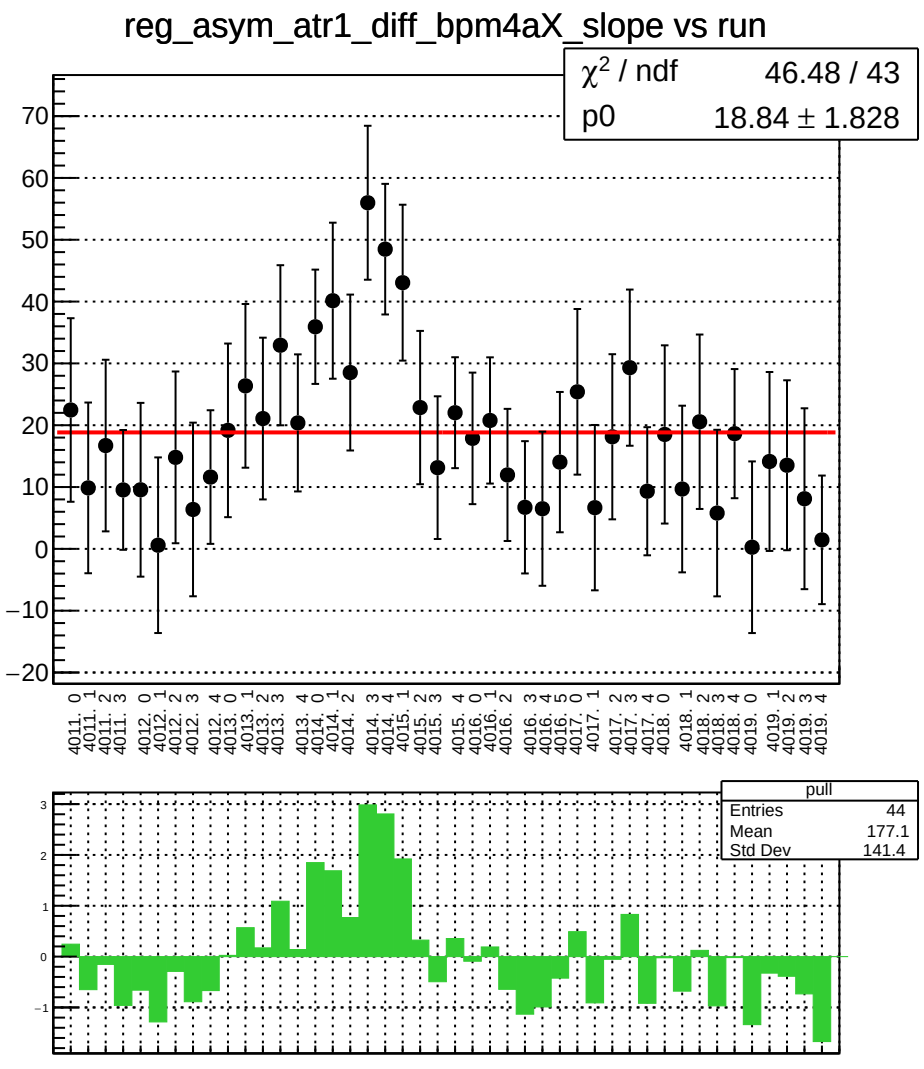

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 148.3 / 43
p0 171.7 ± 0.3711
185
180
175
170
165
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −736.7
Std Dev 758.6
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 44
Mean 0.0274
Std Dev 1.836
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

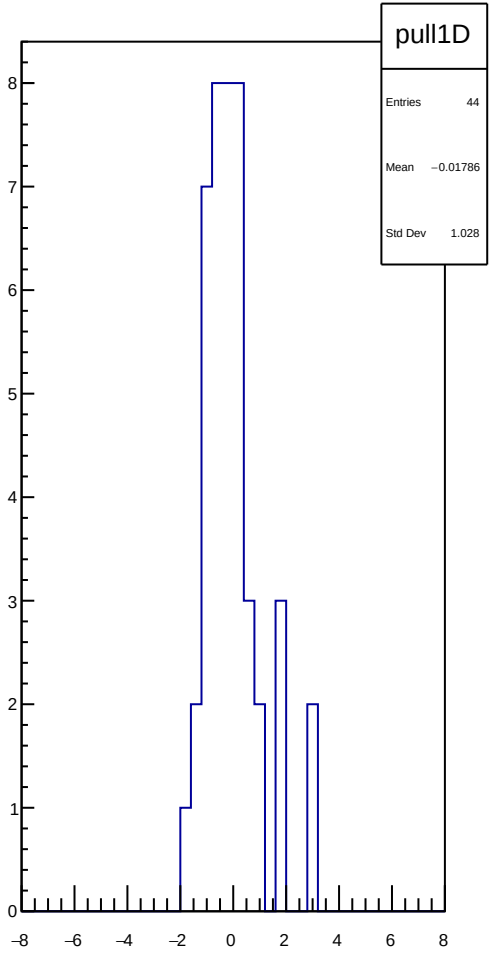

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 10.63 / 43
p0 −90.62 ± 2.827
−60
−80
−100
−120
−140
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −92.94
Std Dev 93.85
1
0.5
0
−0.5
−1

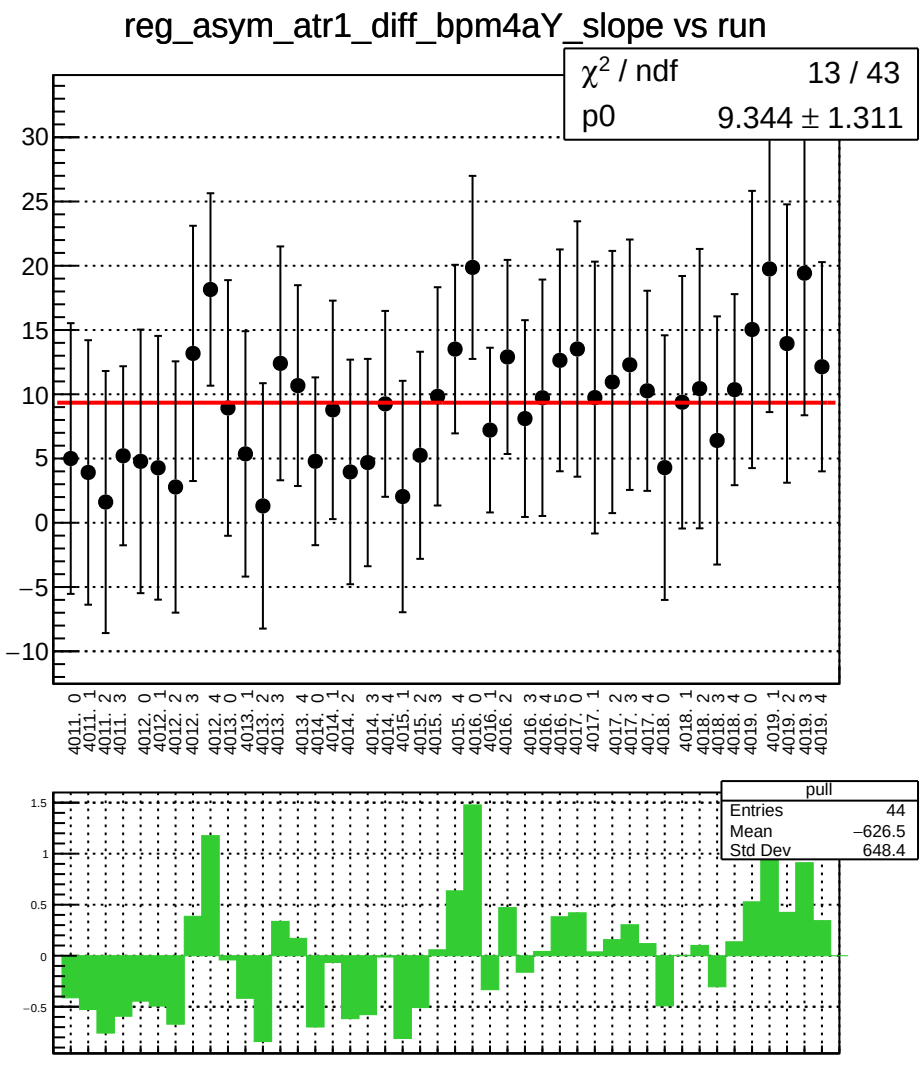

pull1D
Entries 44
Mean −0.00268
Std Dev 0.4916
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

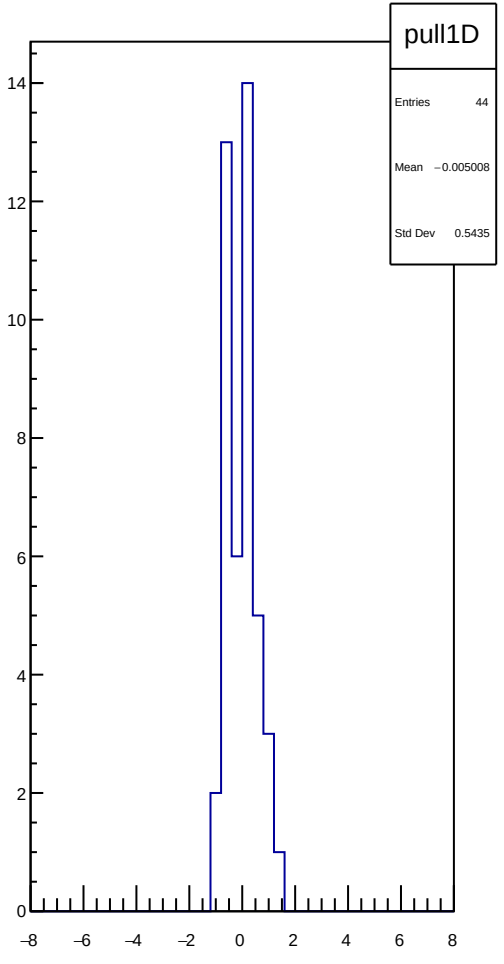

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 8.824 / 43
p0 1.992 ± 0.5511
pull
Entries 44
Mean −101
Std Dev 120.9

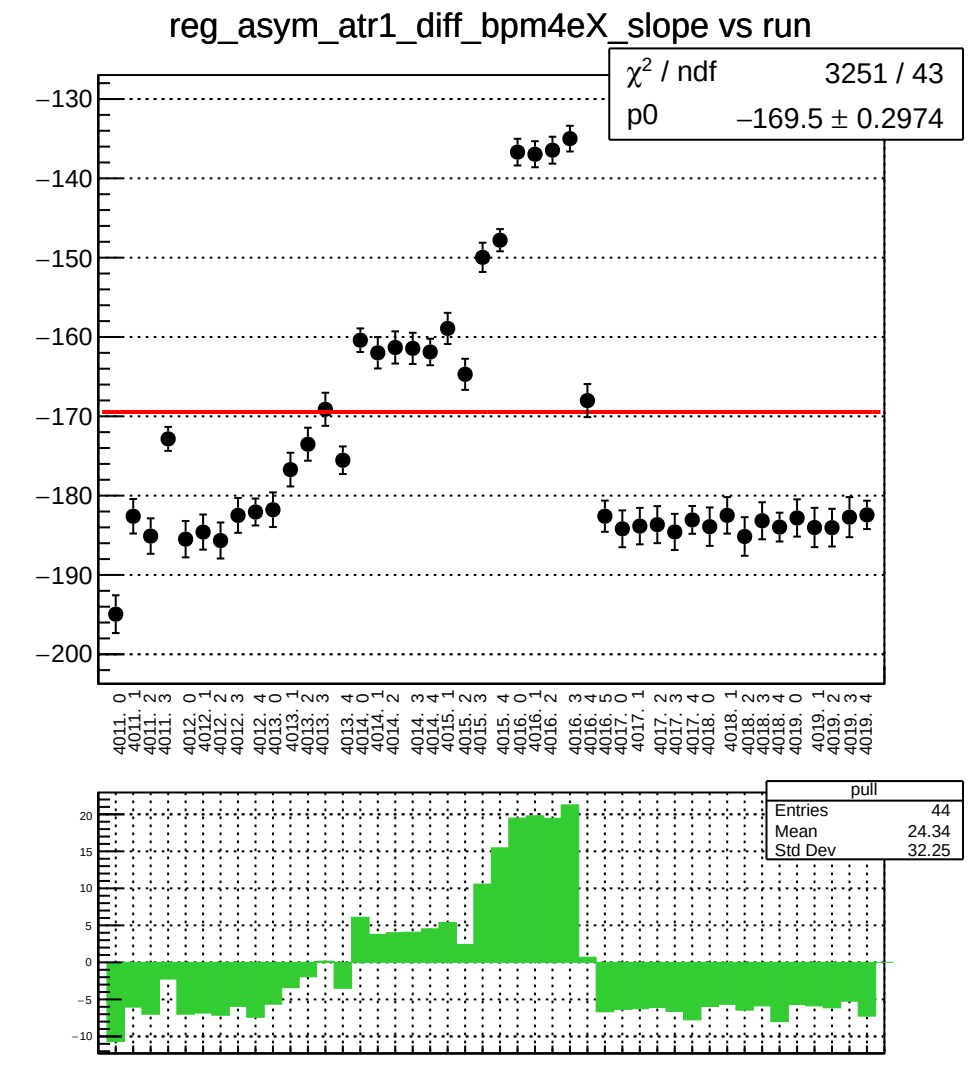

pull1D
Entries 44
Mean 0.02373
Std Dev 0.4472

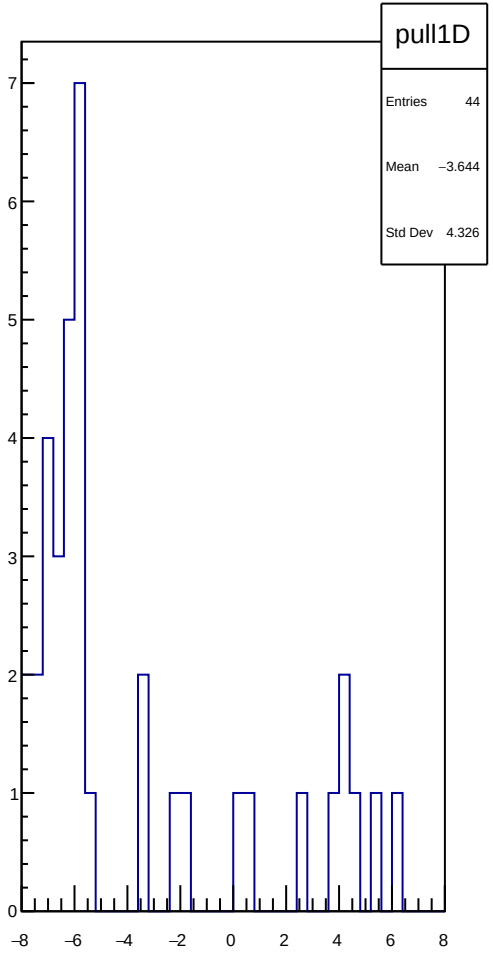

reg_asym_atr1_diff_bpm4aX_slope vs run
χ^2 / ndf 46.48 / 43
p0 18.84 ± 1.828
pull
Entries 44
Mean 177.1
Std Dev 141.4

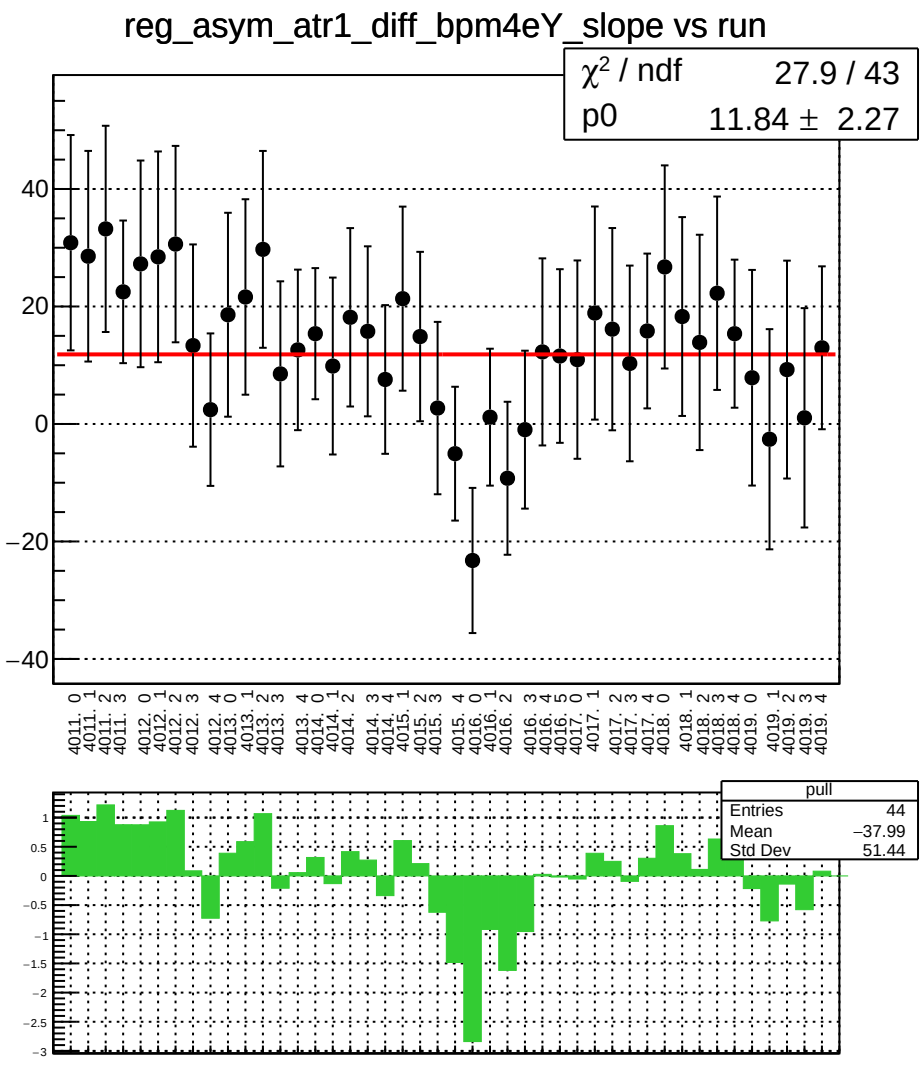

pull1D
Entries 44
Mean −0.01786
Std Dev 1.028

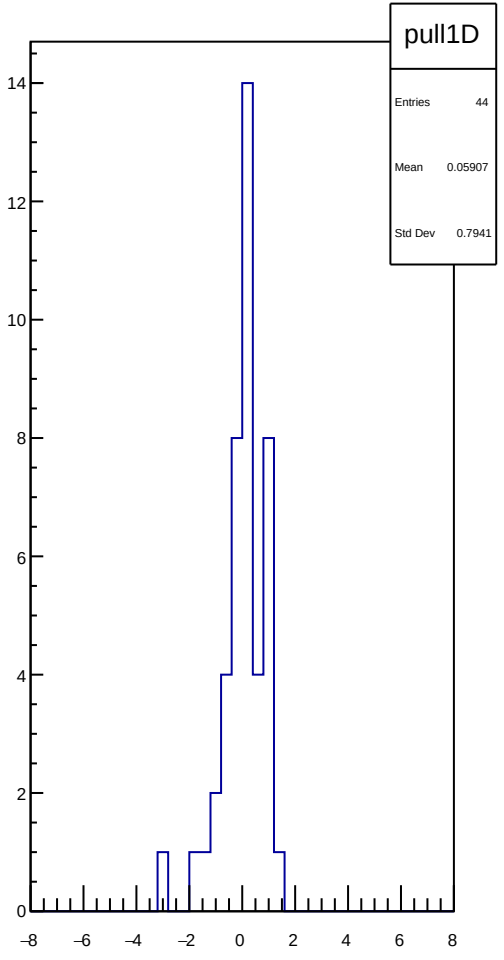

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 13 / 43
p0 9.344 ± 1.311
pull
Entries 44
Mean −626.5
Std Dev 648.4

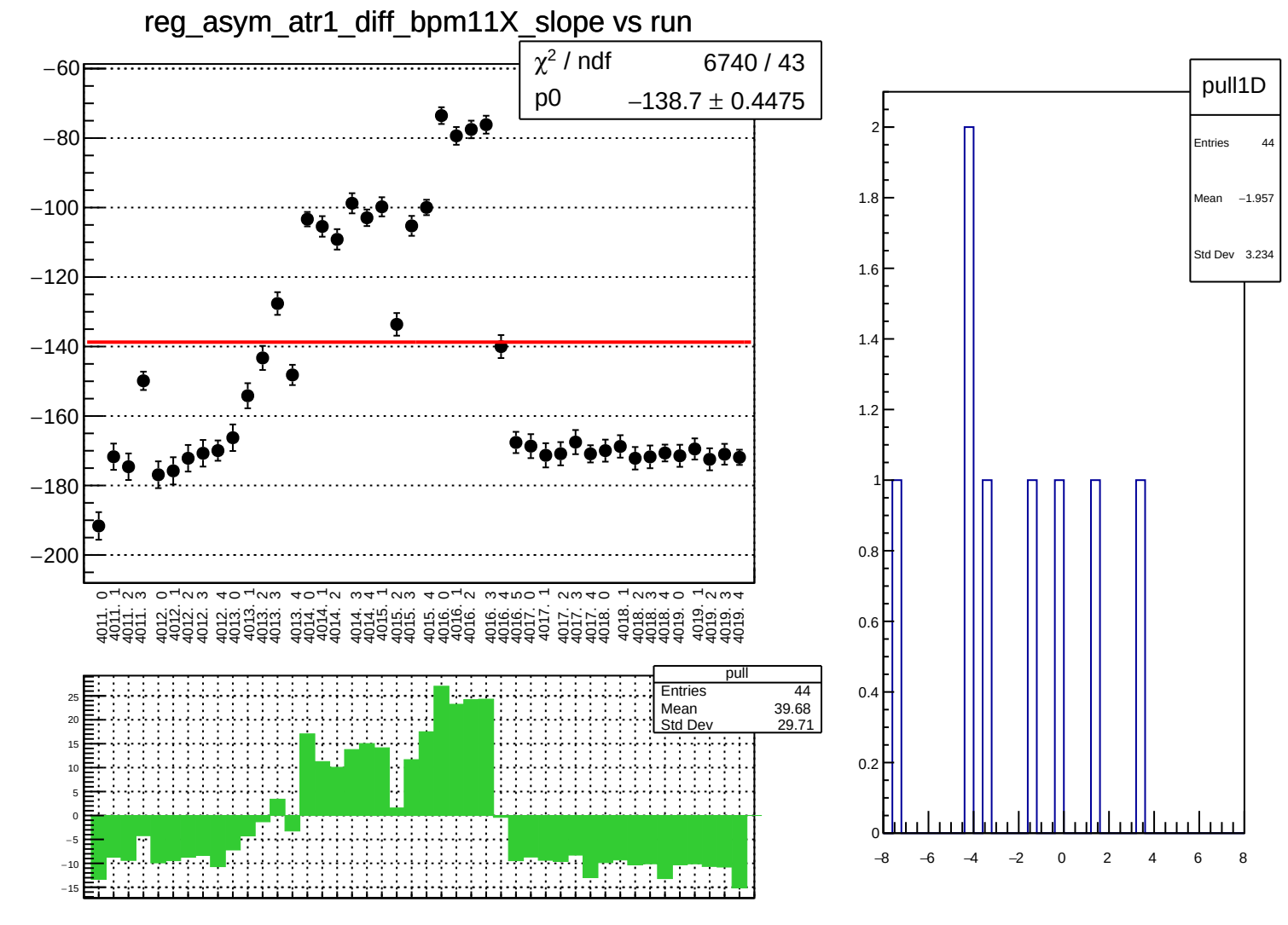

pull1D
Entries 44
Mean −0.005008
Std Dev 0.5435

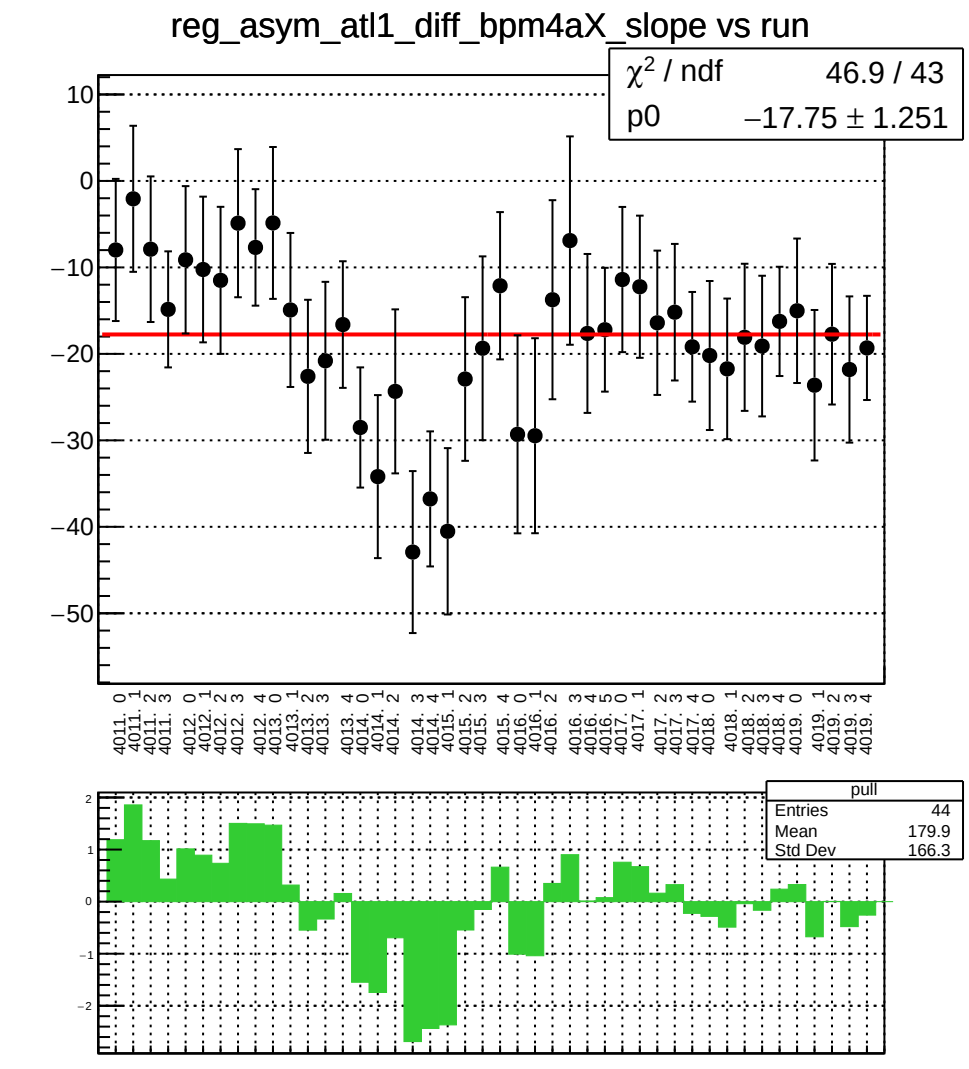

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 3251 / 43
p0 −169.5 ± 0.2974
pull
Entries 44
Mean 24.34
Std Dev 32.25

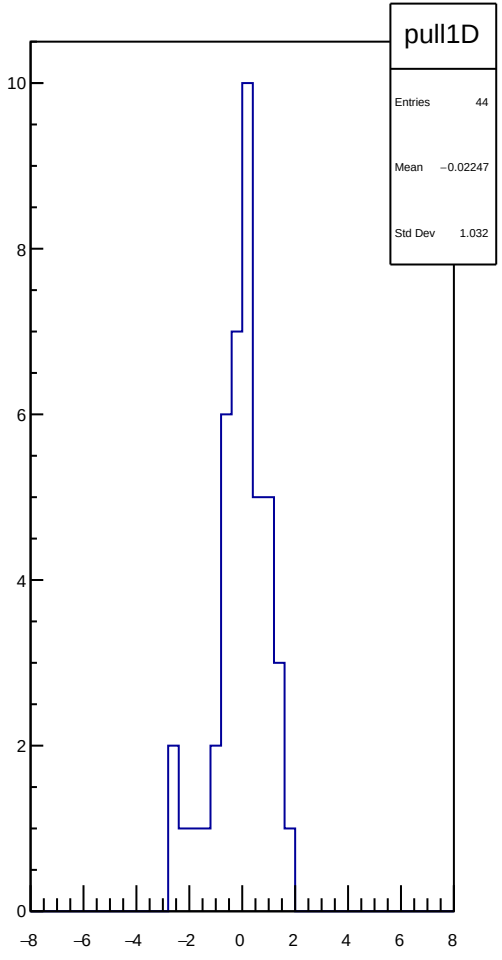

pull1D
Entries 44
Mean −3.644
Std Dev 4.326

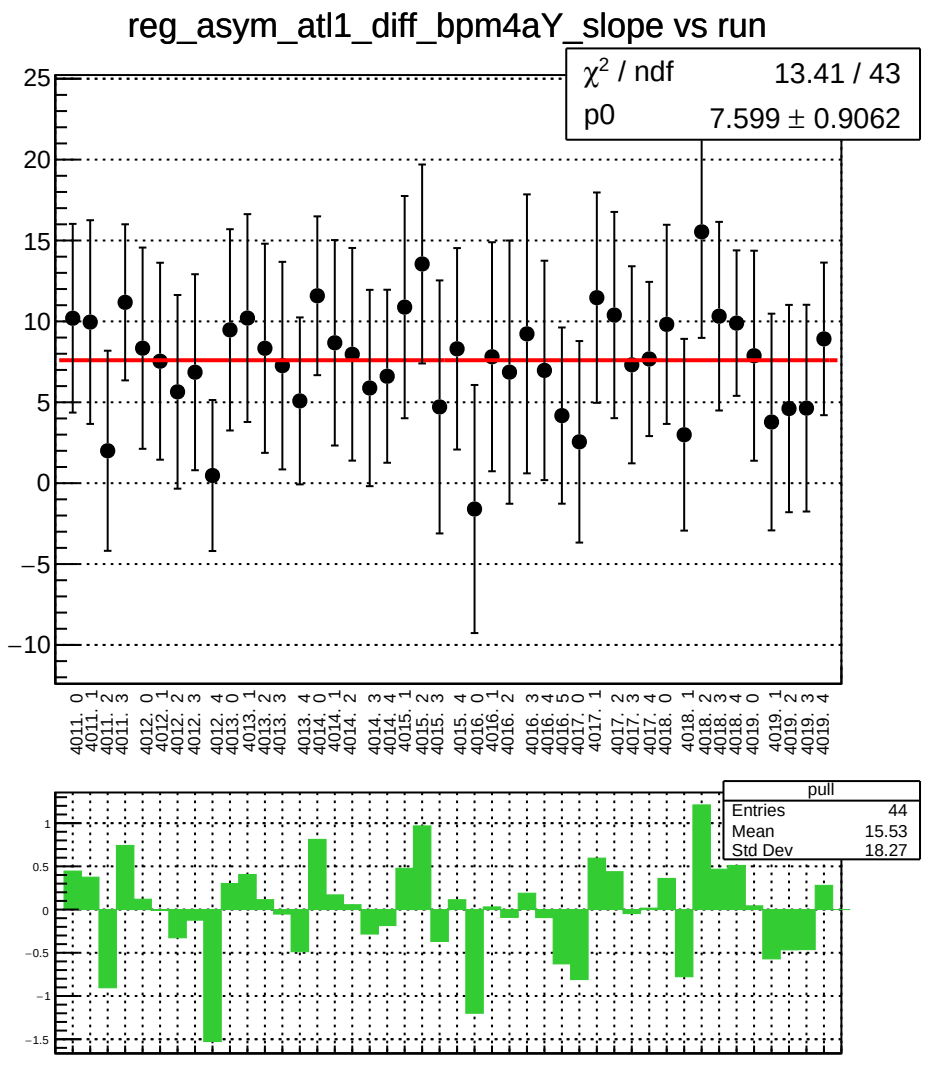

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 27.9 / 43
p0 11.84 ± 2.27
pull
Entries 44
Mean −37.99
Std Dev 51.44

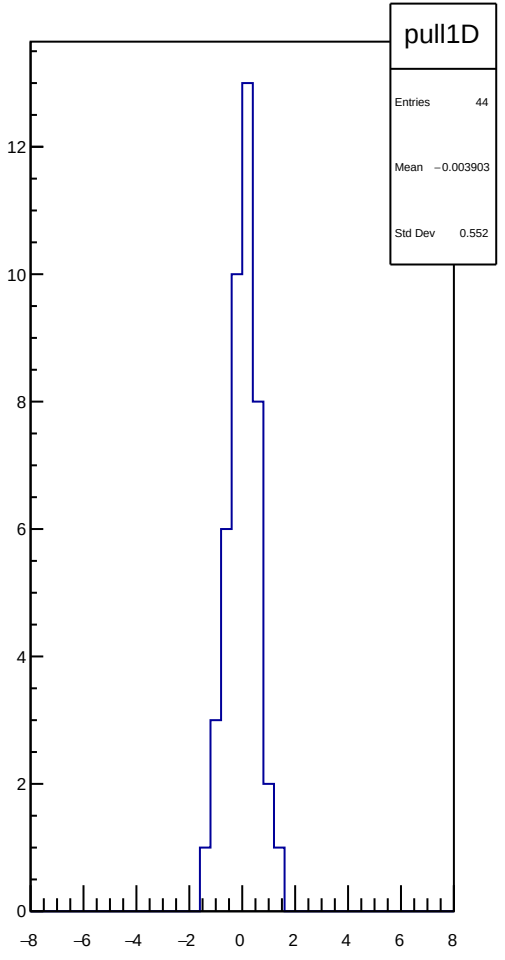

pull1D
Entries 44
Mean 0.05907
Std Dev 0.7941

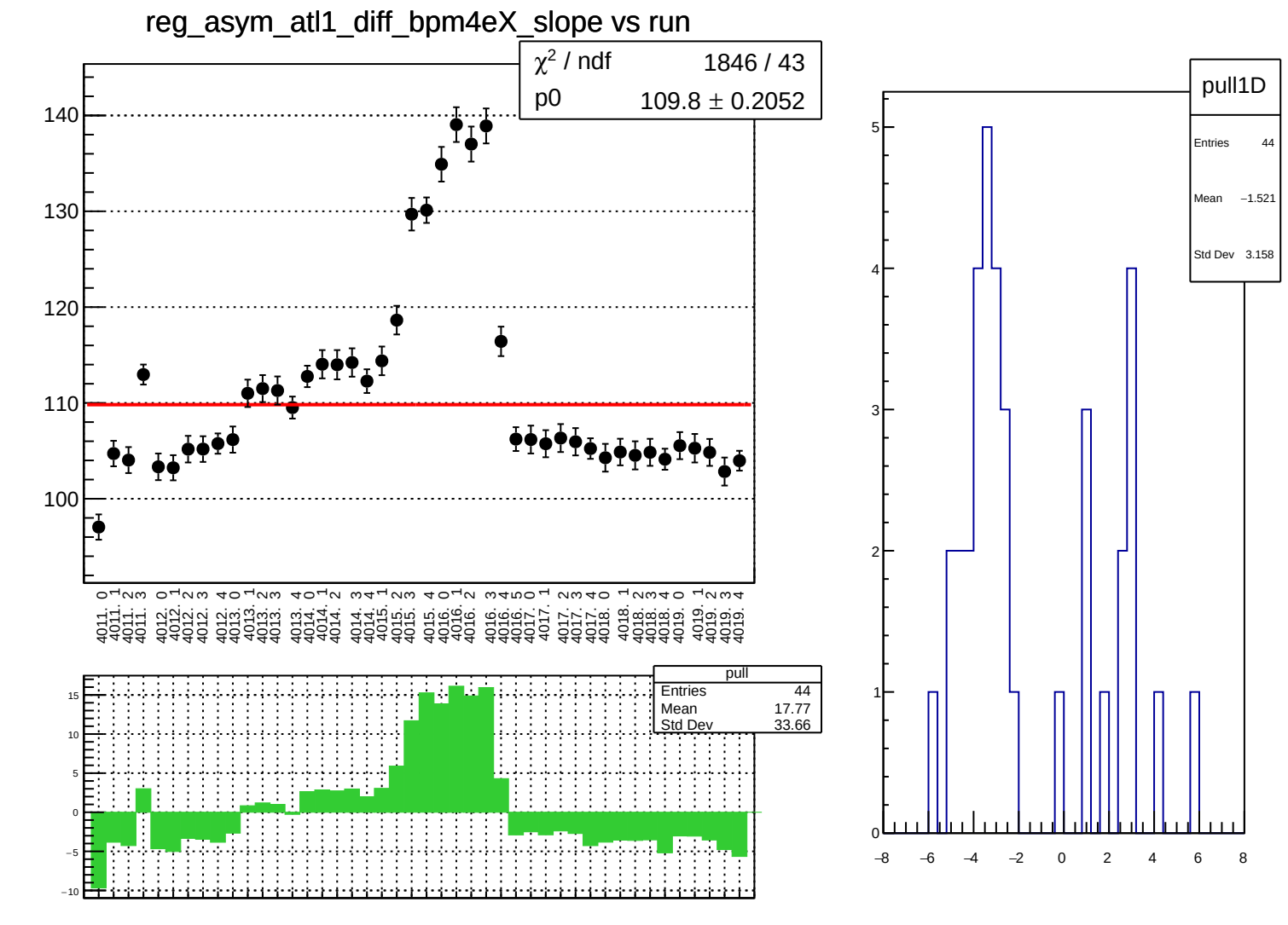

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 6740 / 43
p0 −138.7 ± 0.4475
pull
Entries 44
Mean 39.68
Std Dev 29.71
pull1D
Entries 44
Mean −1.957
Std Dev 3.234

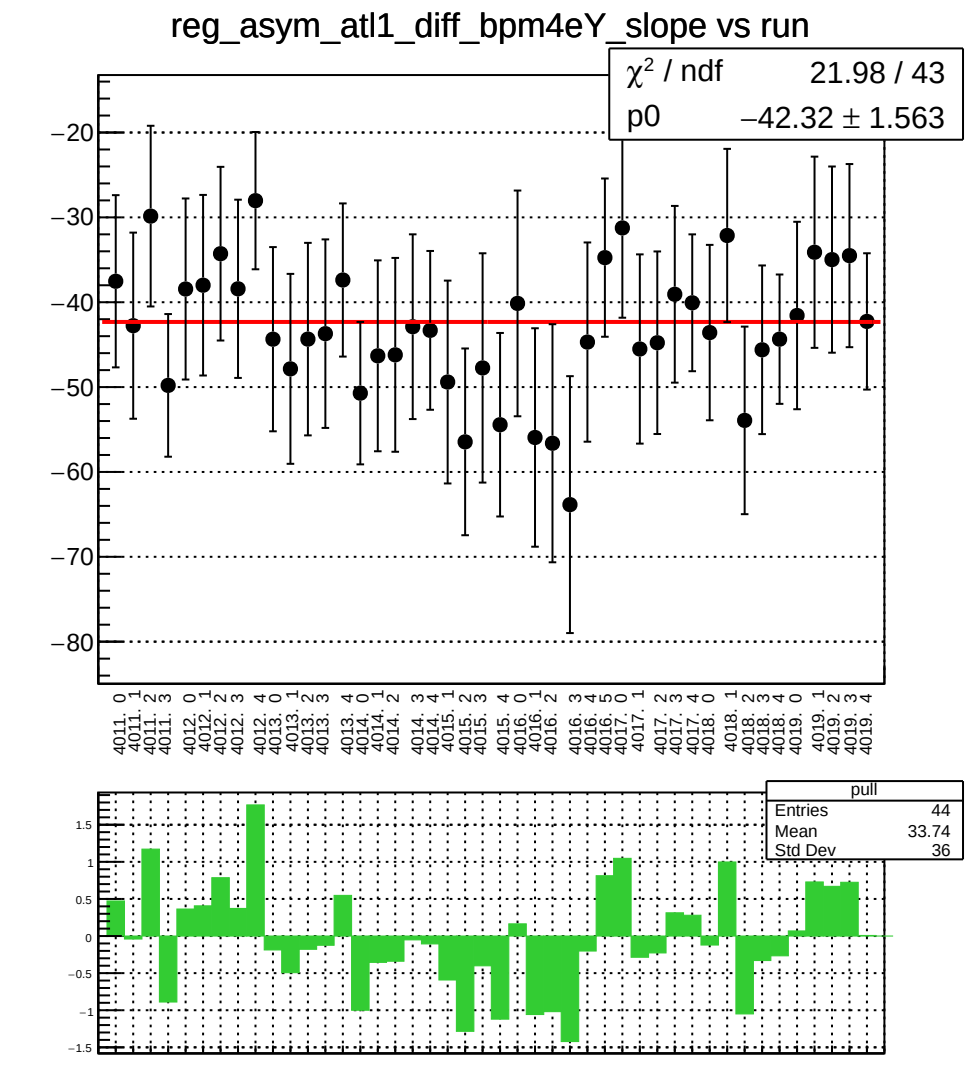

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 46.9 / 43
p0 −17.75 ± 1.251
pull
Entries 44
Mean 179.9
Std Dev 166.3

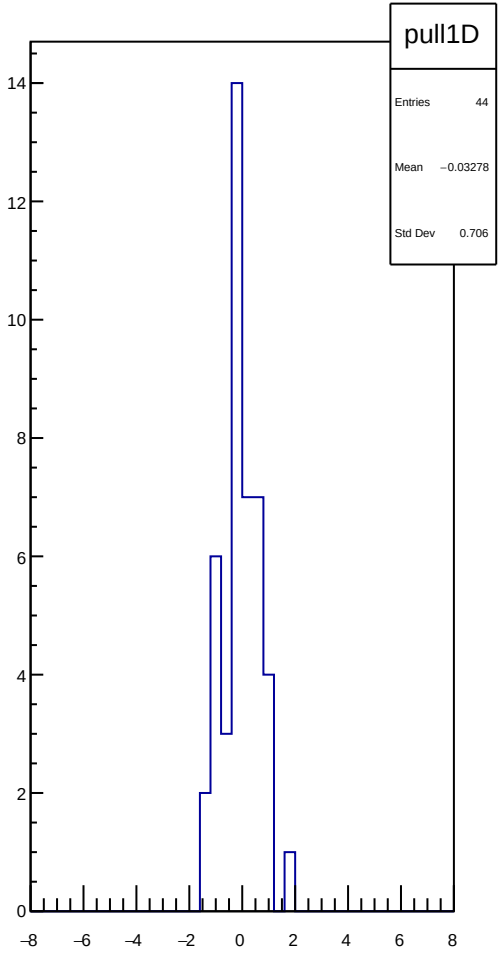

pull1D
Entries 44
Mean −0.02247
Std Dev 1.032

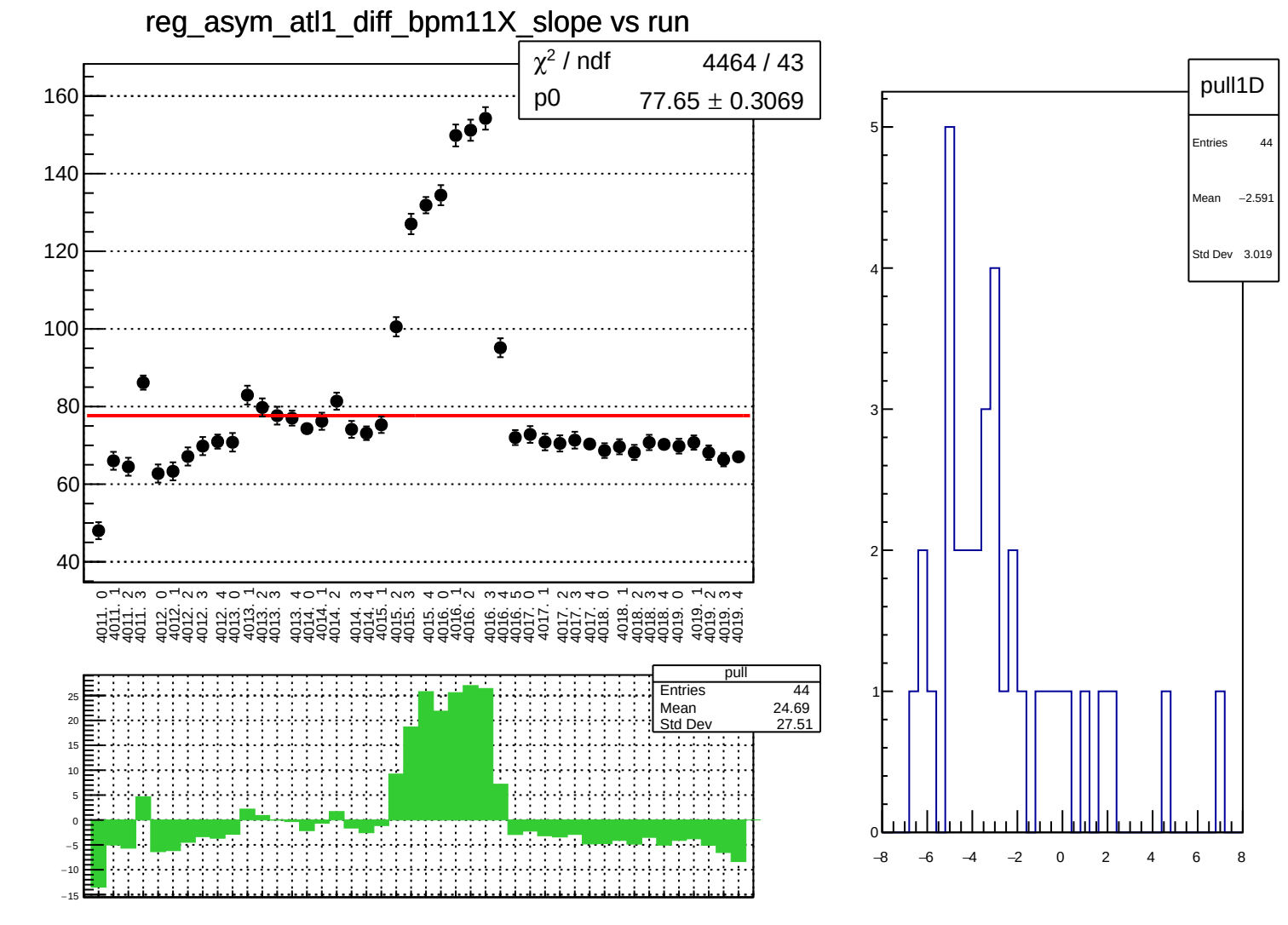

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 13.41 / 43
p0 7.599 ± 0.9062
pull
Entries 44
Mean 15.53
Std Dev 18.27

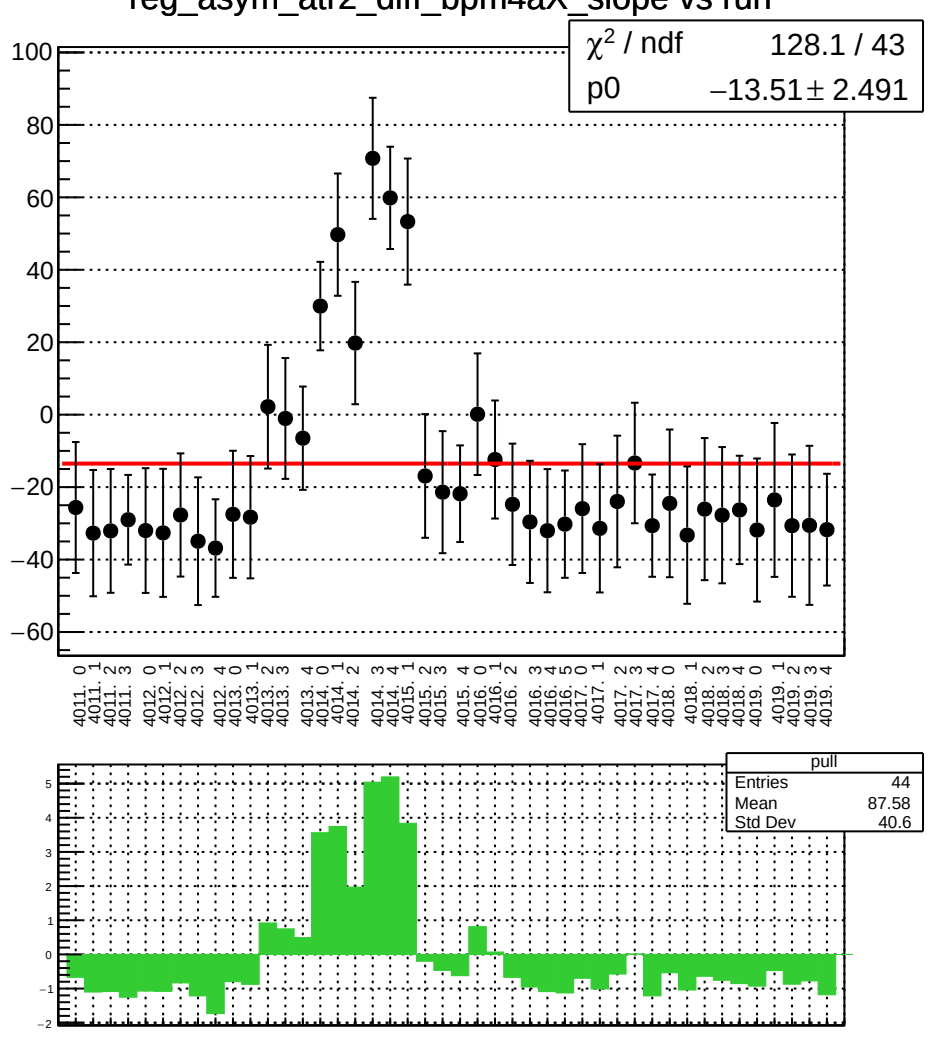

pull1D
Entries 44
Mean −0.003903
Std Dev 0.552

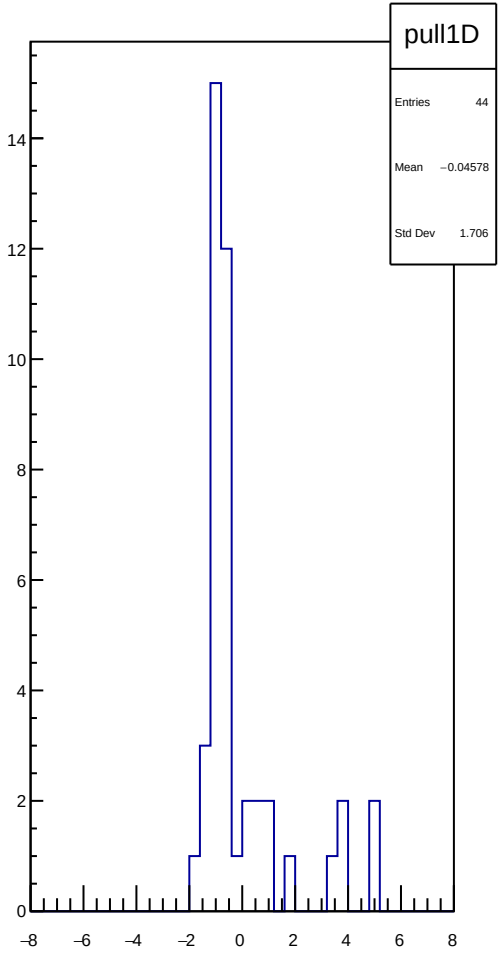

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 1846 / 43
p0 109.8 ± 0.2052
140
130
120
110
100
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 17.77
Std Dev 33.66
15
10
5
0
−5
−10
pull1D
Entries 44
Mean −1.521
Std Dev 3.158
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

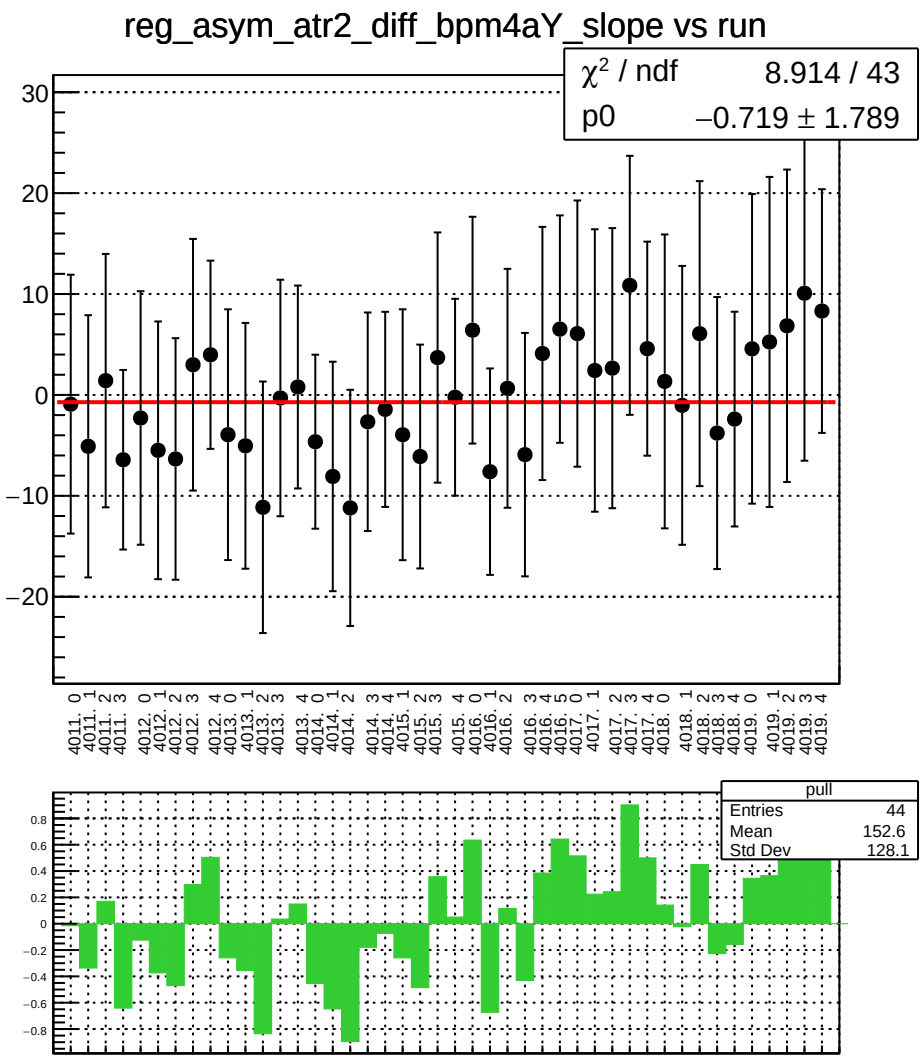

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 21.98 / 43
p0 −42.32 ± 1.563
pull
Entries 44
Mean 33.74
Std Dev 36

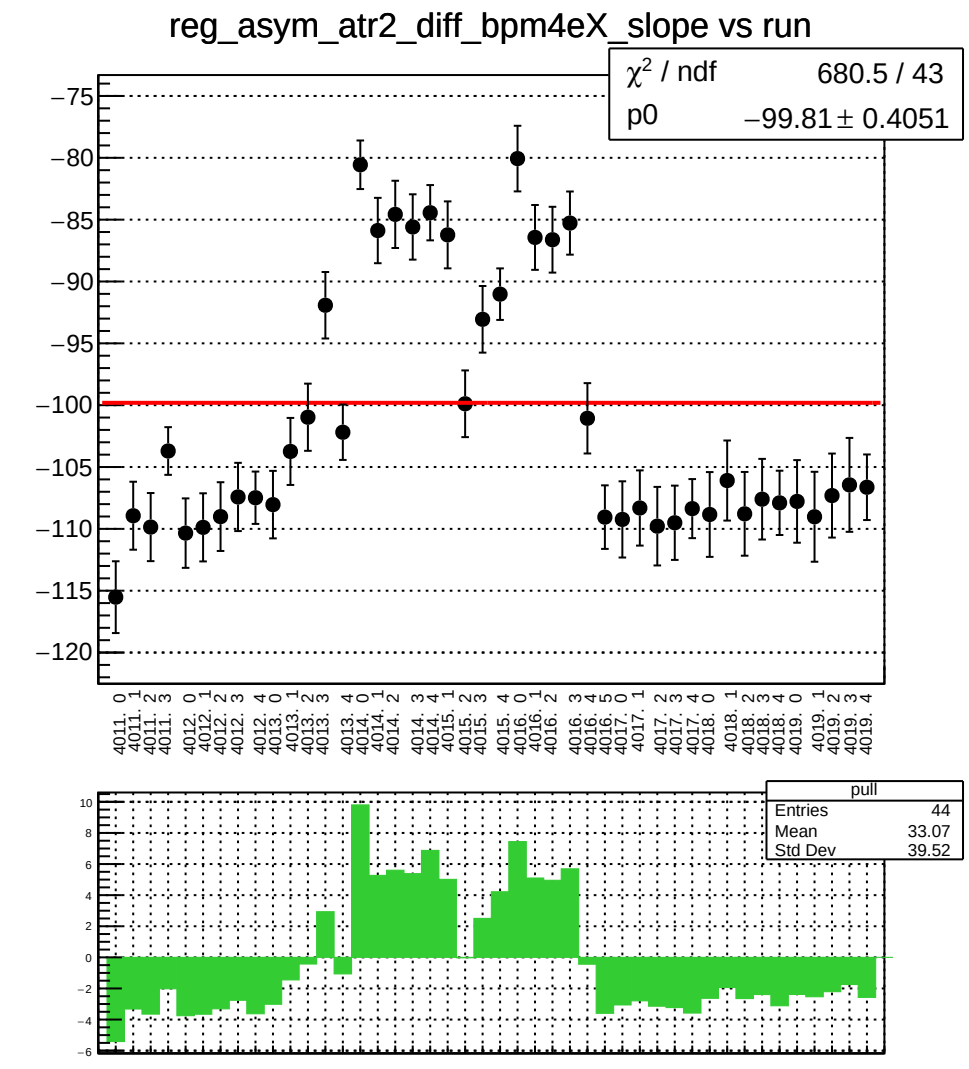

pull1D
Entries 44
Mean −0.03278
Std Dev 0.706

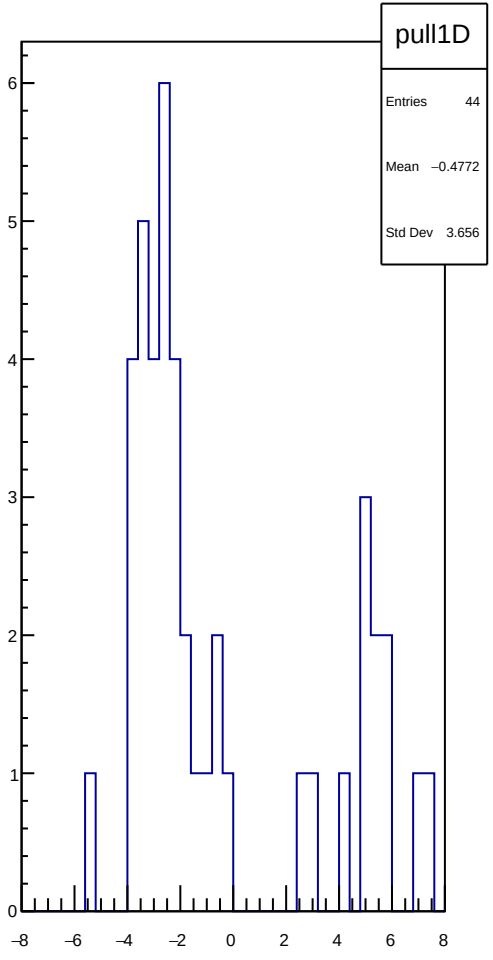

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 4464 / 43
p0 77.65 ± 0.3069
160
140
120
100
80
60
40
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 24.69
Std Dev 27.51
25
20
15
10
5
0
−5
−10
−15
pull1D
Entries 44
Mean −2.591
Std Dev 3.019
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

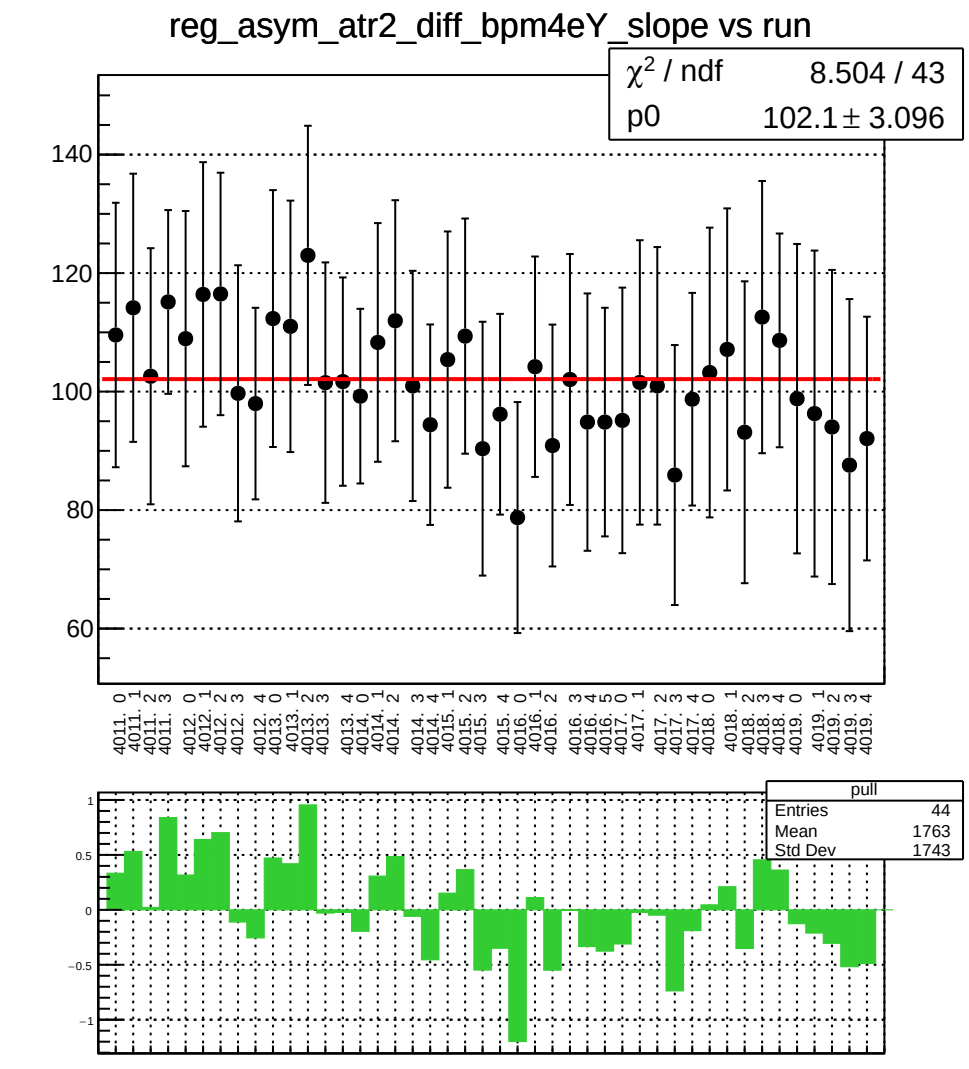

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 128.1 / 43
p0 −13.51 ± 2.491
pull
Entries 44
Mean 87.58
Std Dev 40.6

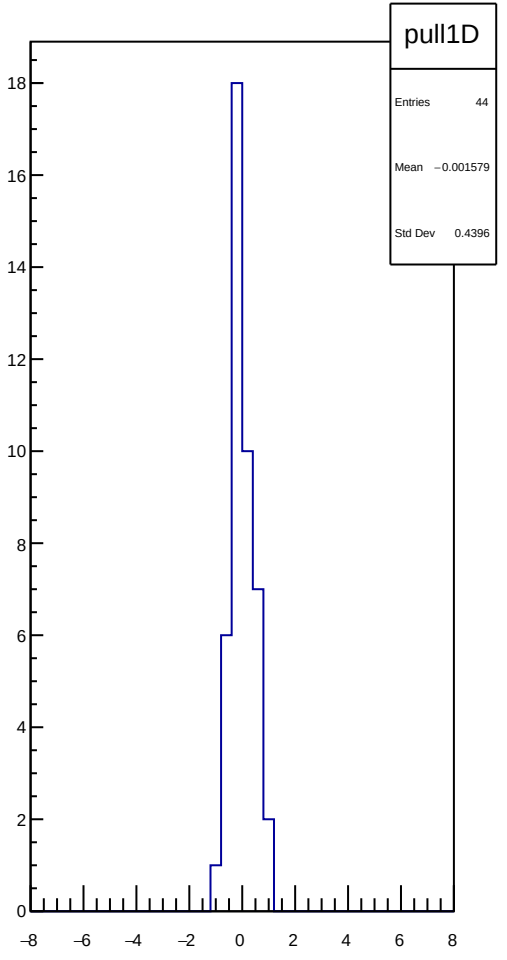

pull1D
Entries 44
Mean −0.04578
Std Dev 1.706

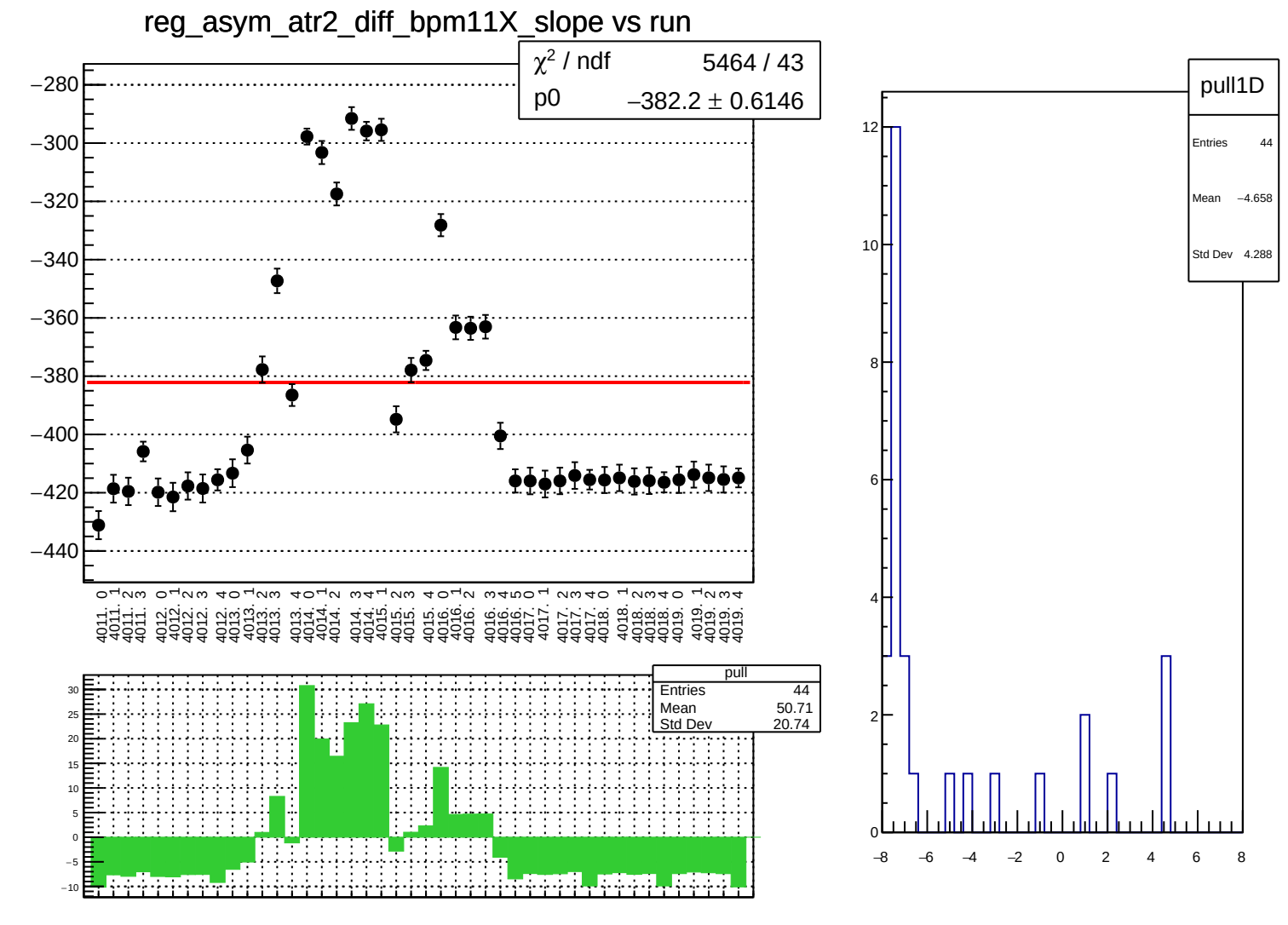

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 8.914 / 43
p0 −0.719 ± 1.789
30
20
10
0
−10
−20
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 152.6
Std Dev 128.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 44
Mean 0.02271
Std Dev 0.4495
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

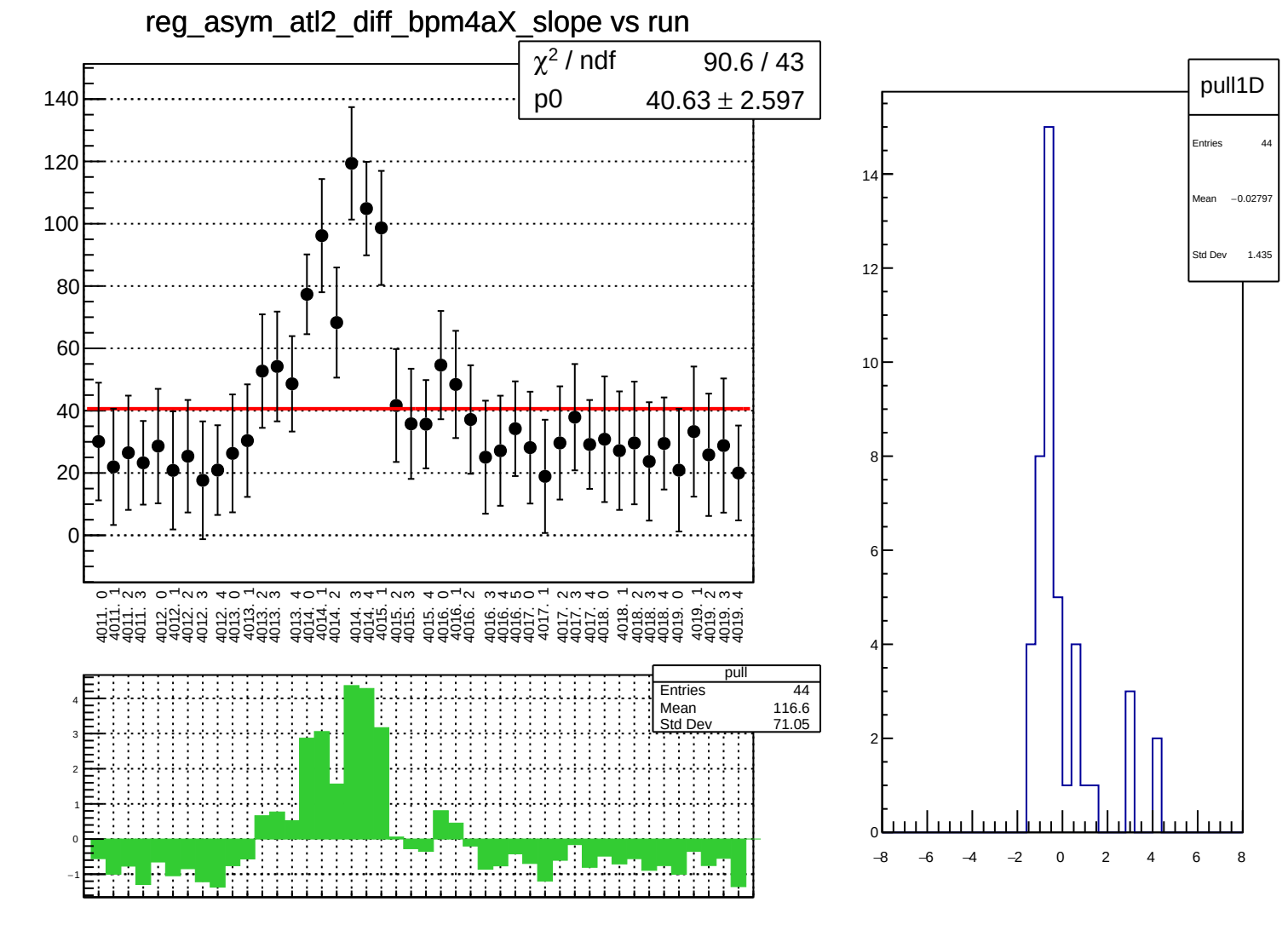

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 680.5 / 43
p0 −99.81 ± 0.4051
pull
Entries 44
Mean 33.07
Std Dev 39.52

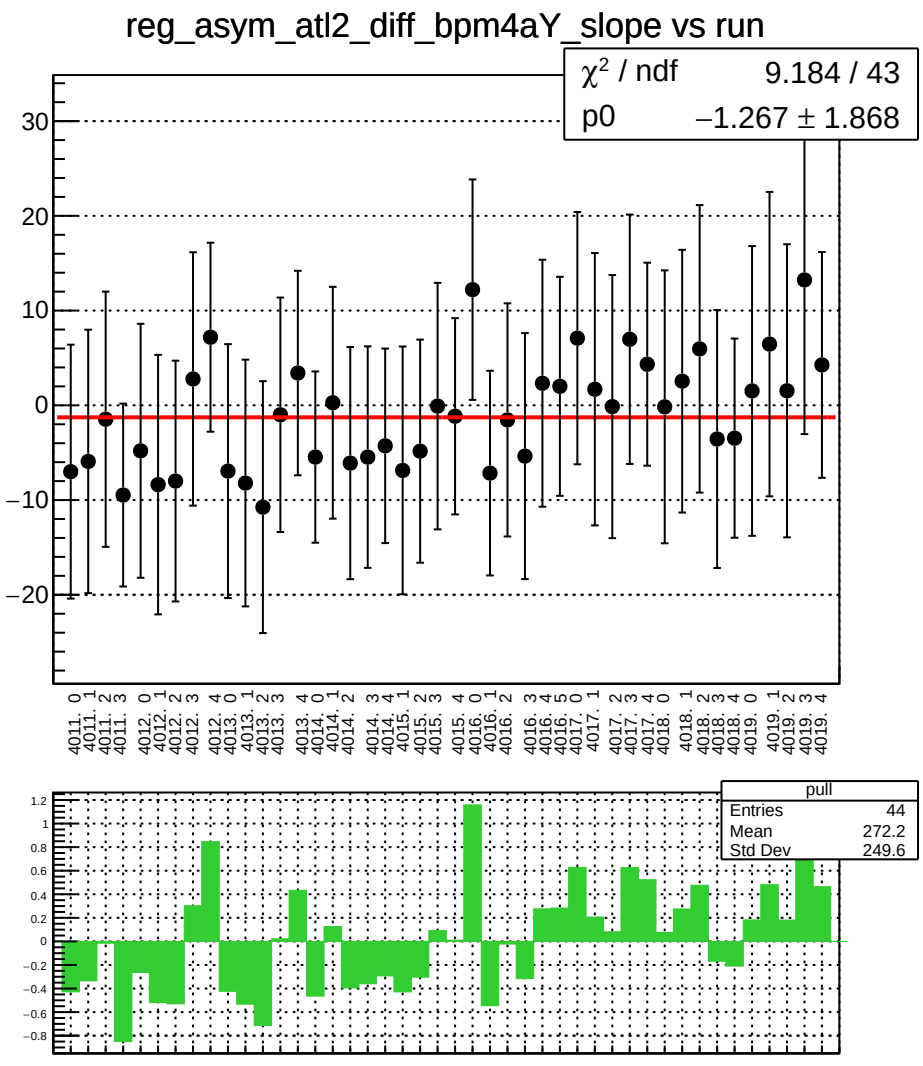

pull1D
Entries 44
Mean −0.4772
Std Dev 3.656

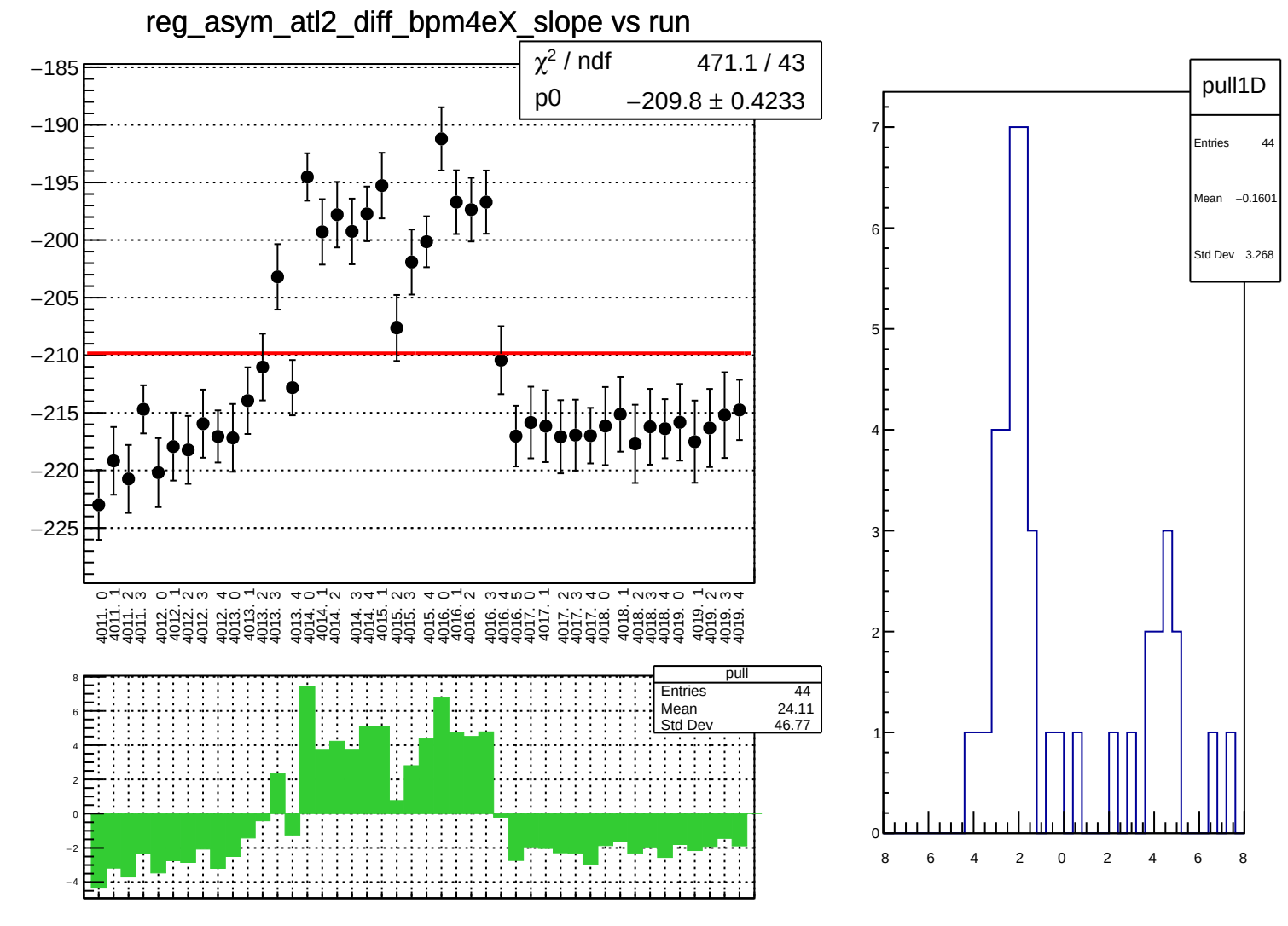

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 8.504 / 43
p0 102.1 ± 3.096
140
120
100
80
60
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 1763
Std Dev 1743
1
0.5
0
−0.5
−1

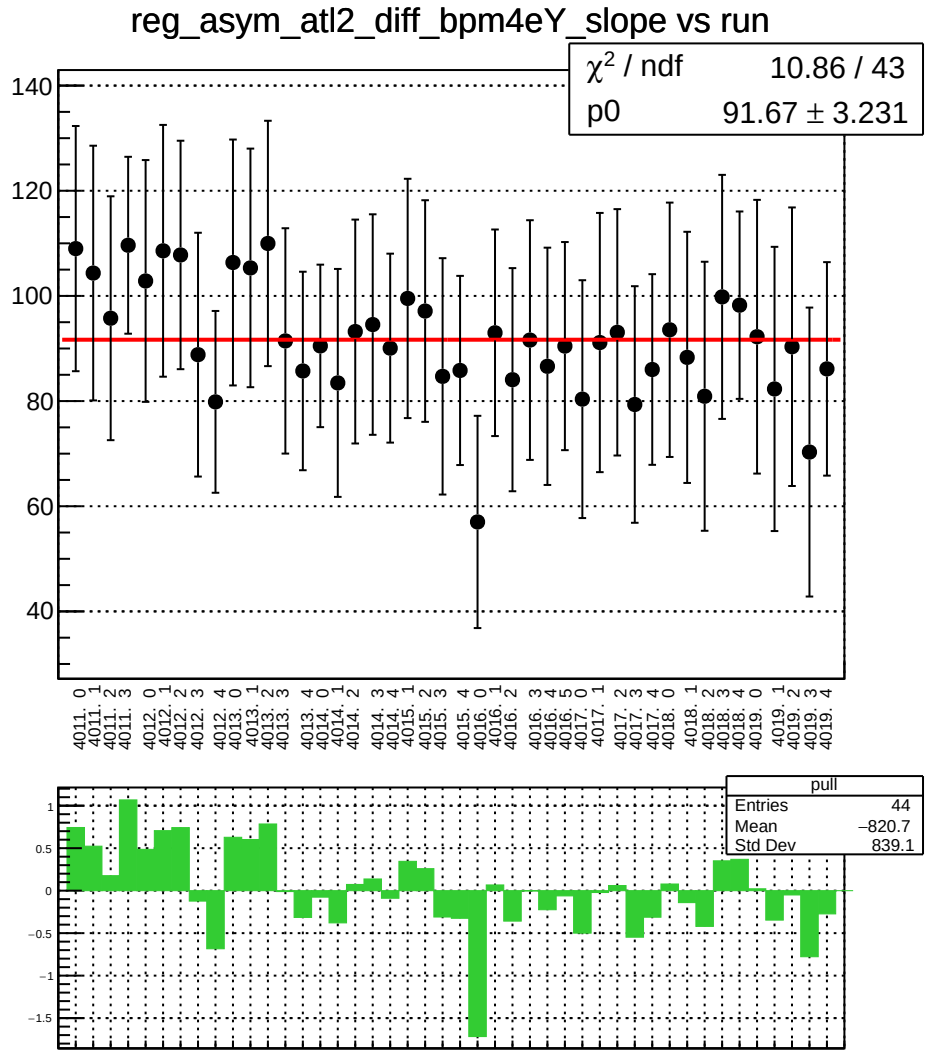

pull1D
Entries 44
Mean −0.001579
Std Dev 0.4396
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

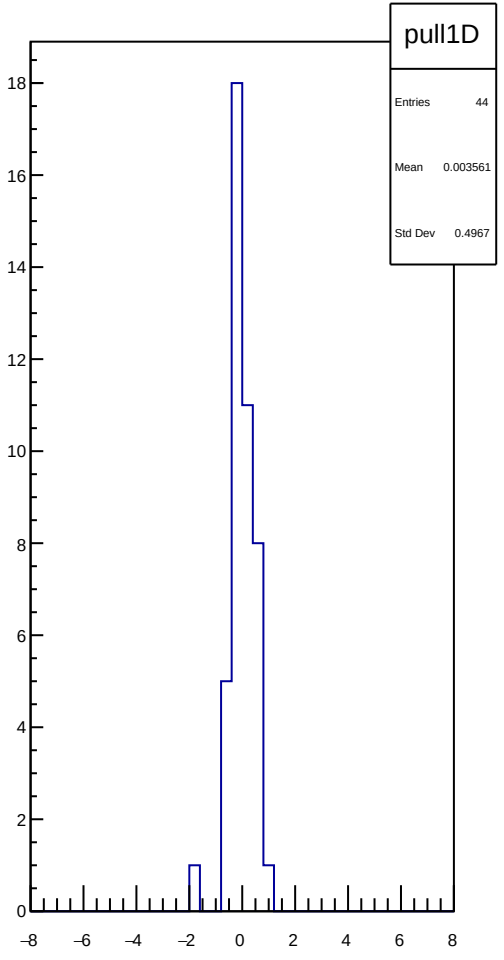

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 5464 / 43
p0 −382.2 ± 0.6146
pull
Entries 44
Mean 50.71
Std Dev 20.74
pull1D
Entries 44
Mean −4.658
Std Dev 4.288

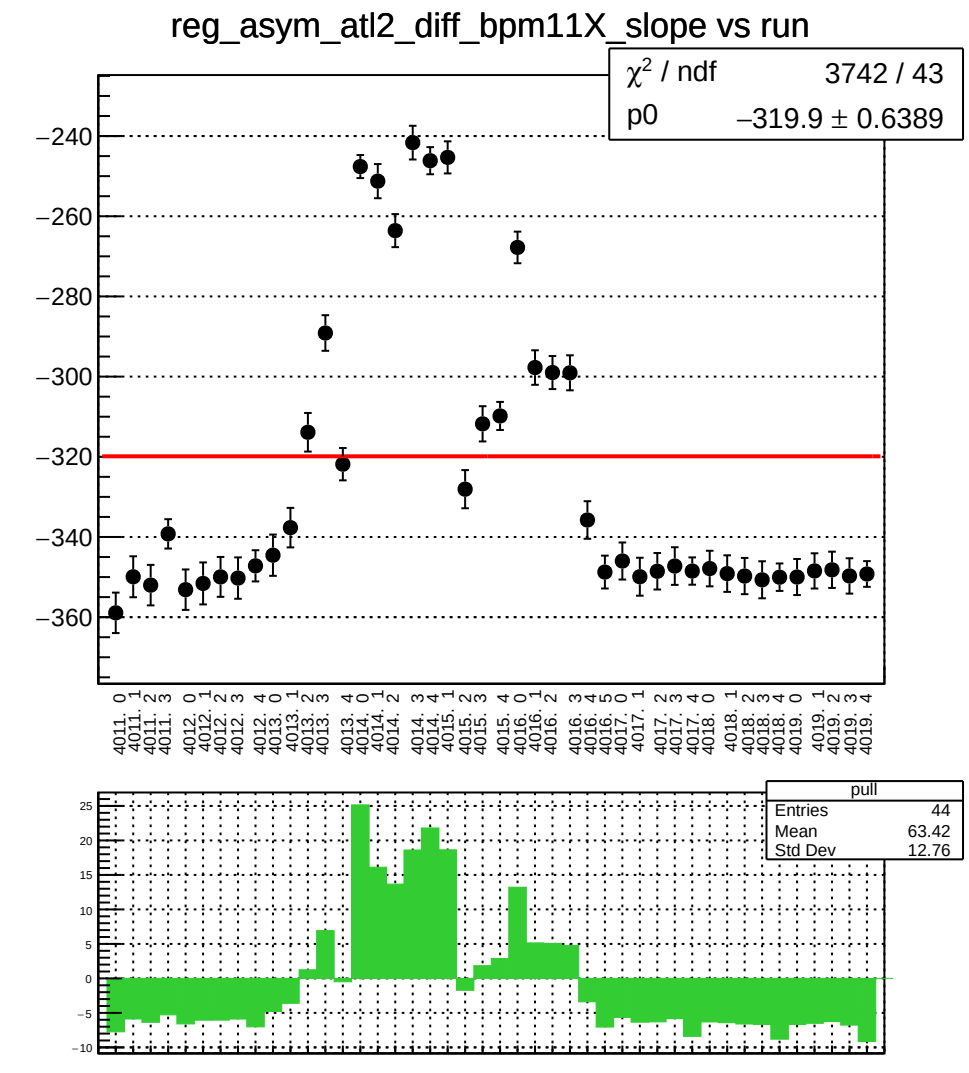

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 90.6 / 43
p0 40.63 ± 2.597
pull
Entries 44
Mean 116.6
Std Dev 71.05
pull1D
Entries 44
Mean −0.02797
Std Dev 1.435

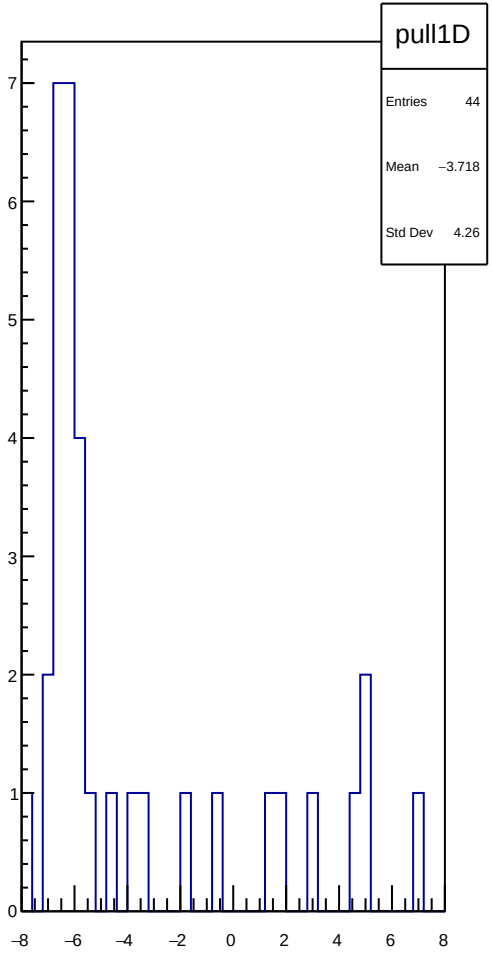

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 9.184 / 43
p0 −1.267 ± 1.868
30
20
10
0
−10
−20
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 272.2
Std Dev 249.6
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 44
Mean 0.01209
Std Dev 0.4567
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

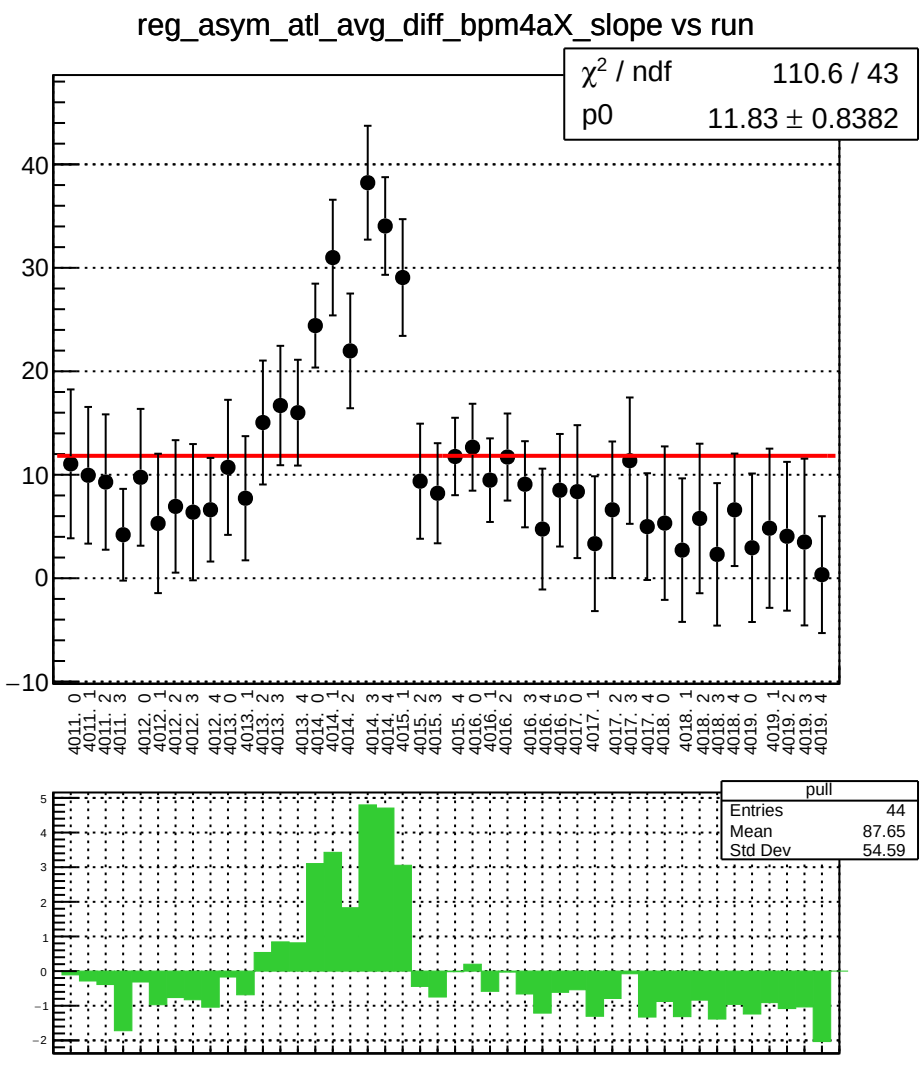

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 471.1 / 43
p0 −209.8 ± 0.4233
−185
−190
−195
−200
−205
−210
−215
−220
−225
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 24.11
Std Dev 46.77
8
6
4
2
0
−2
−4
pull1D
Entries 44
Mean −0.1601
Std Dev 3.268
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

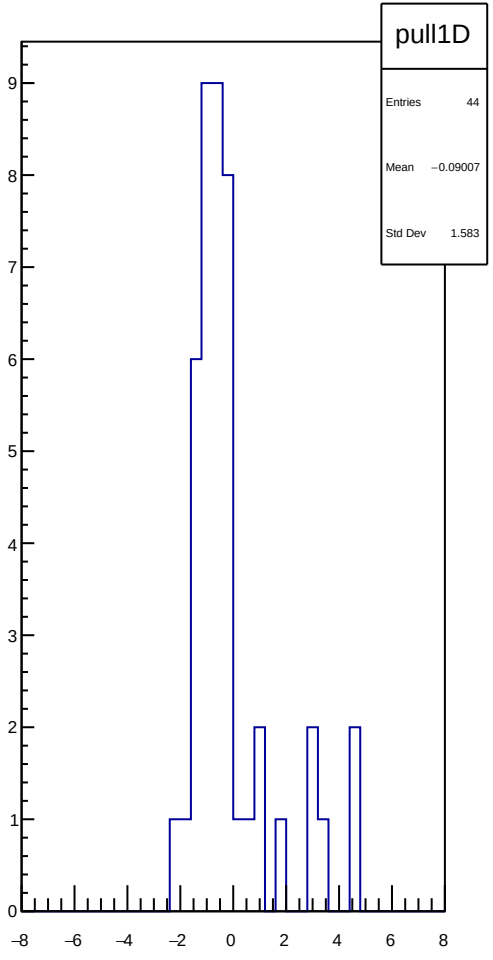

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 10.86 / 43
p0 91.67 ± 3.231
pull
Entries 44
Mean –820.7
Std Dev 839.1

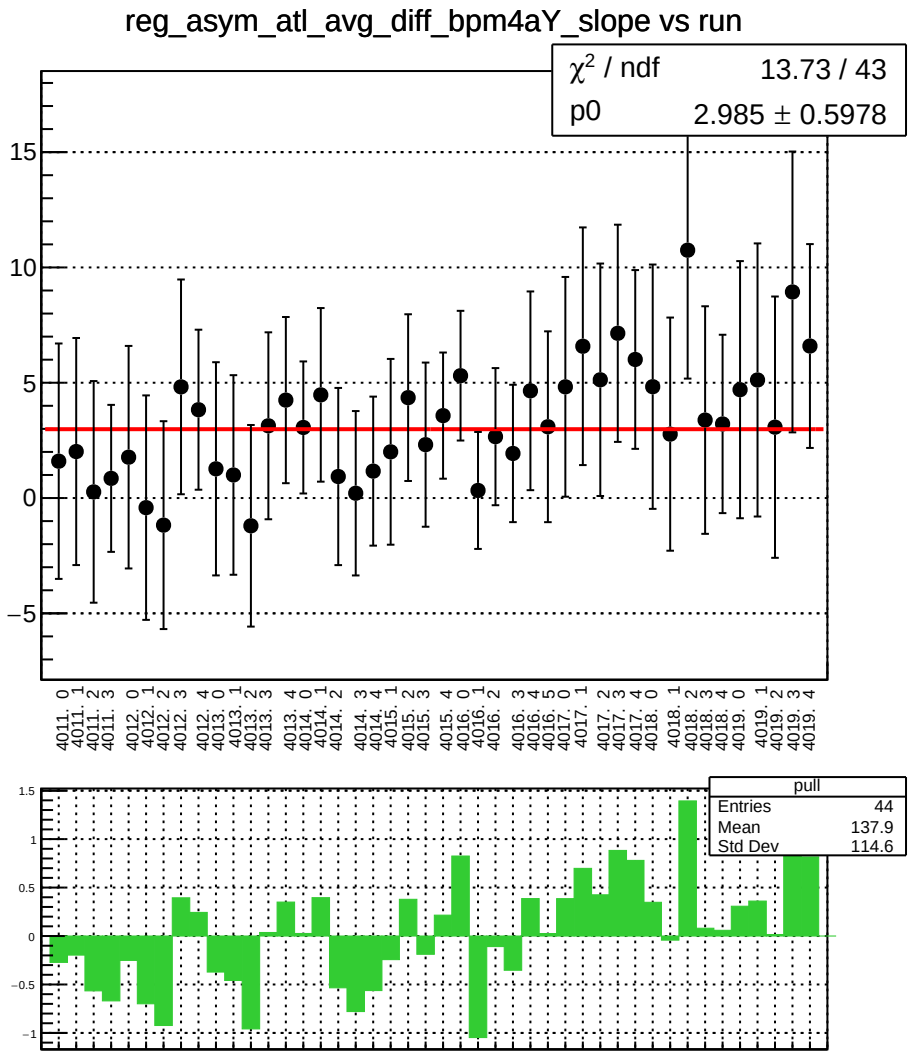

pull1D
Entries 44
Mean 0.003561
Std Dev 0.4967

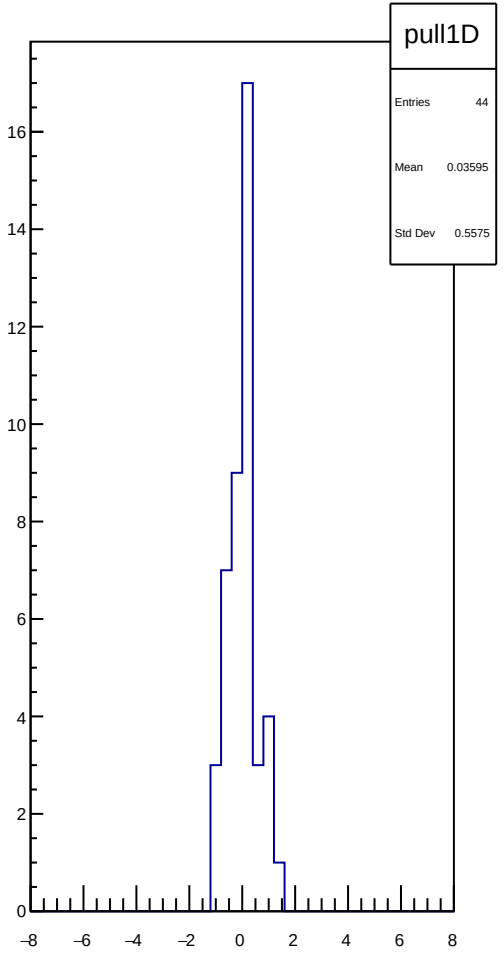

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 3742 / 43
p0 −319.9 ± 0.6389
pull
Entries 44
Mean 63.42
Std Dev 12.76

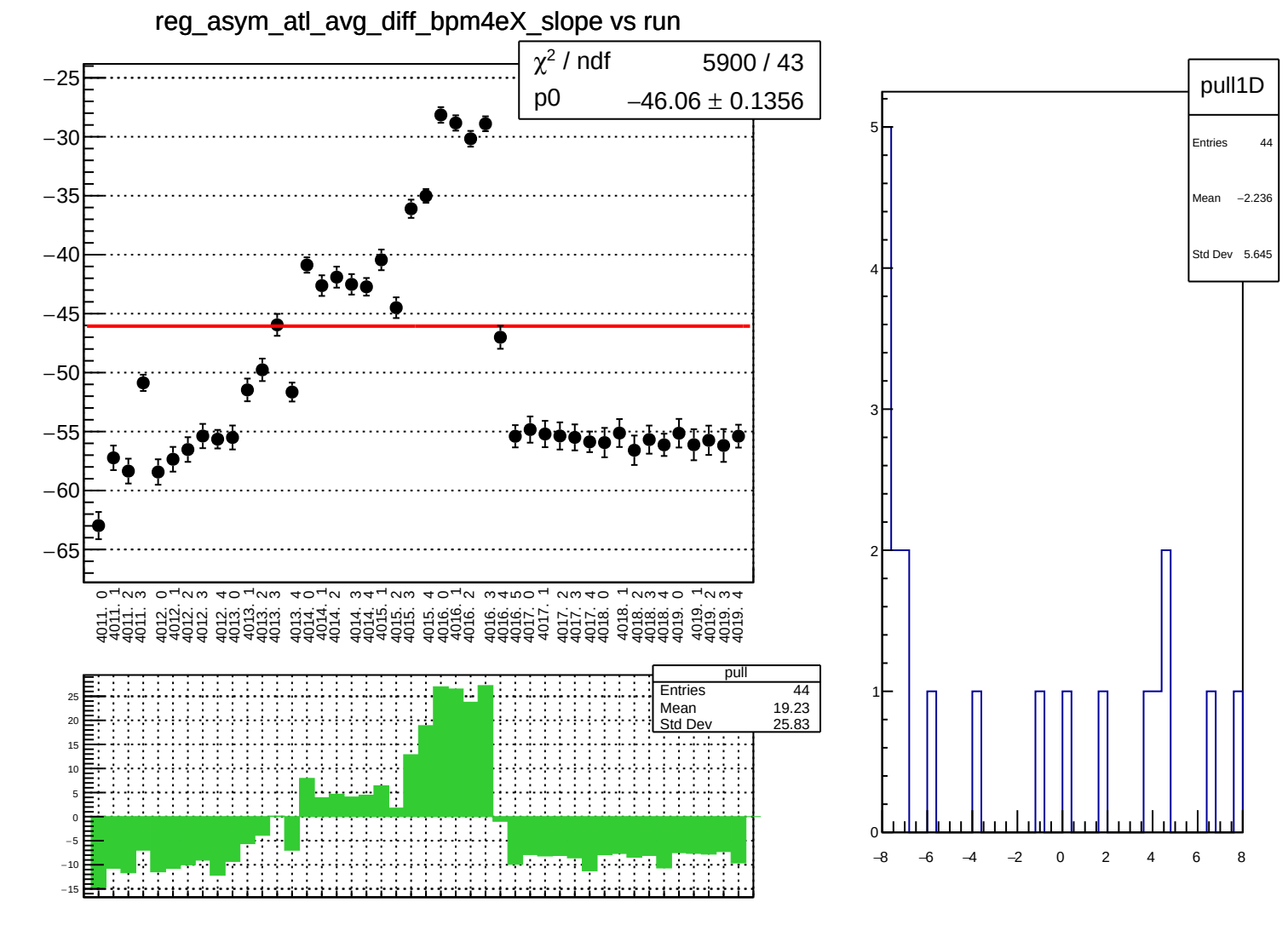

pull1D
Entries 44
Mean −3.718
Std Dev 4.26

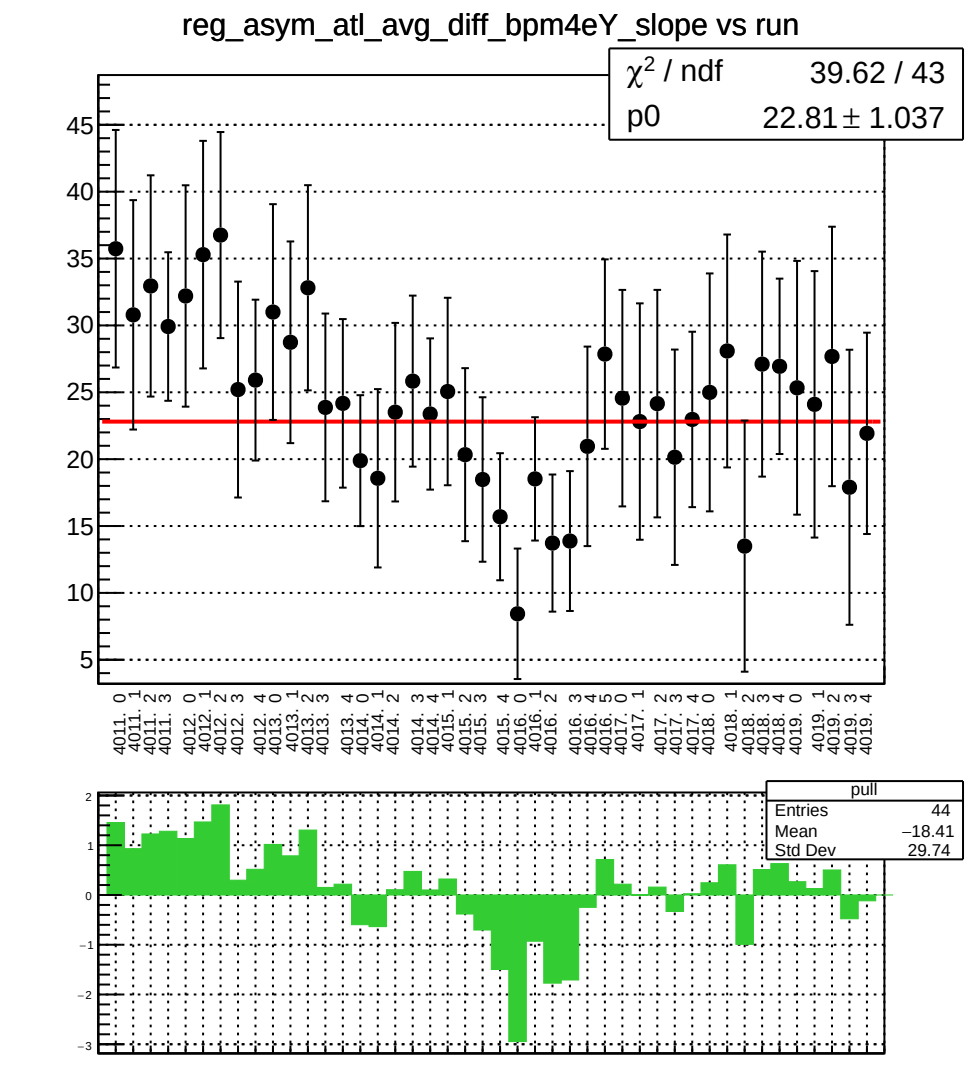

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 110.6 / 43
p0 11.83 ± 0.8382
pull
Entries 44
Mean 87.65
Std Dev 54.59

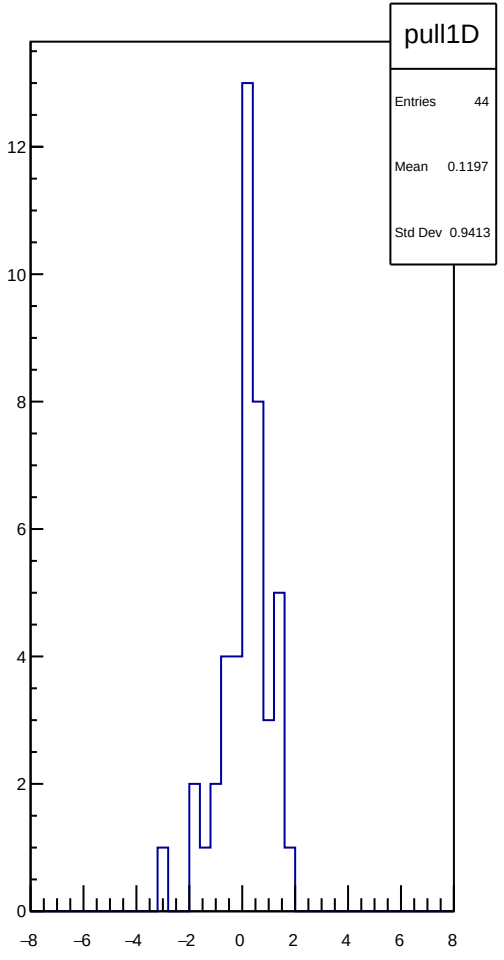

pull1D
Entries 44
Mean −0.09007
Std Dev 1.583

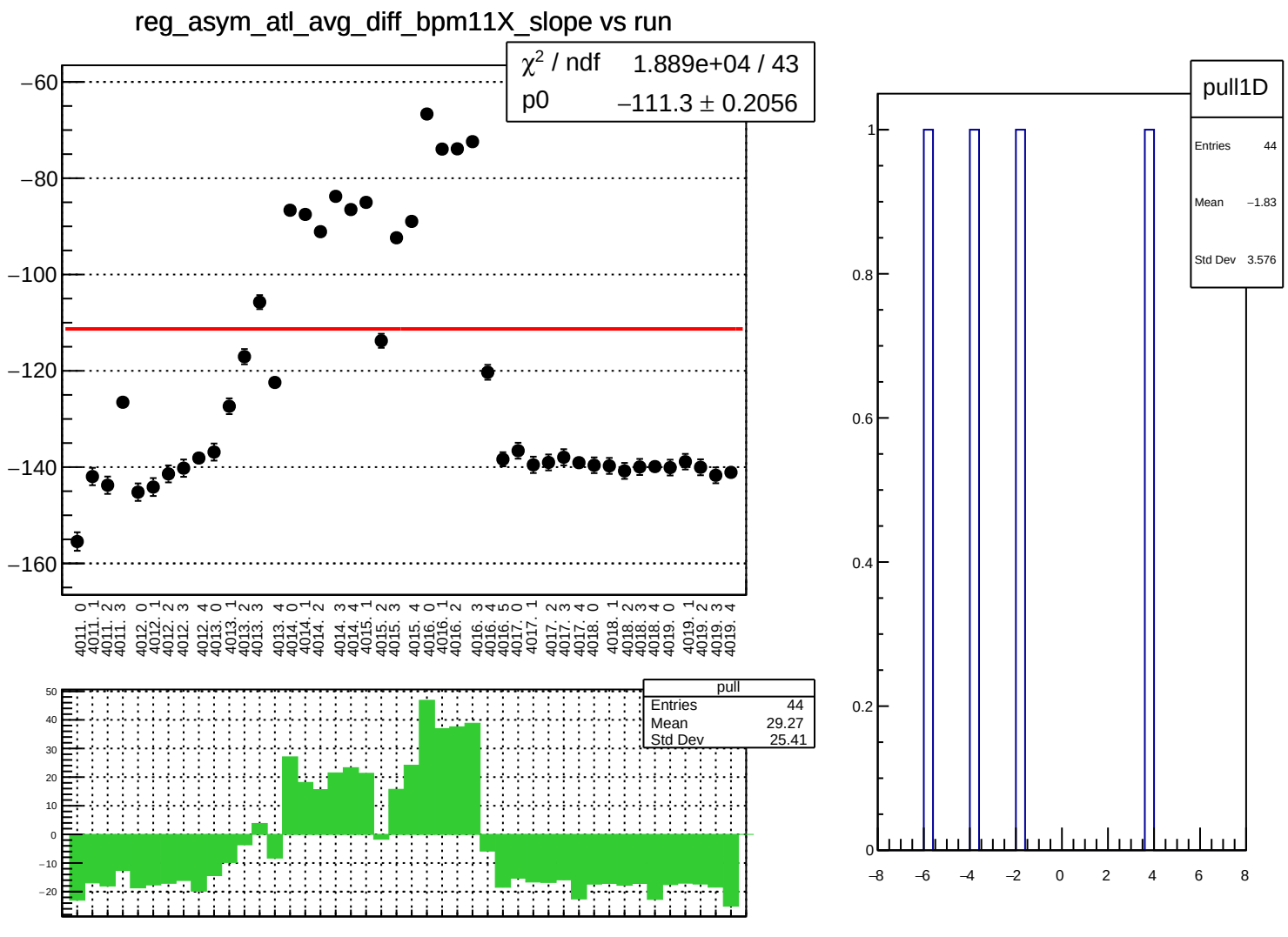

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.73 / 43
p0 2.985 ± 0.5978
15
10
5
0
−5
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 137.9
Std Dev 114.6
1.5
1
0.5
0
−0.5
−1

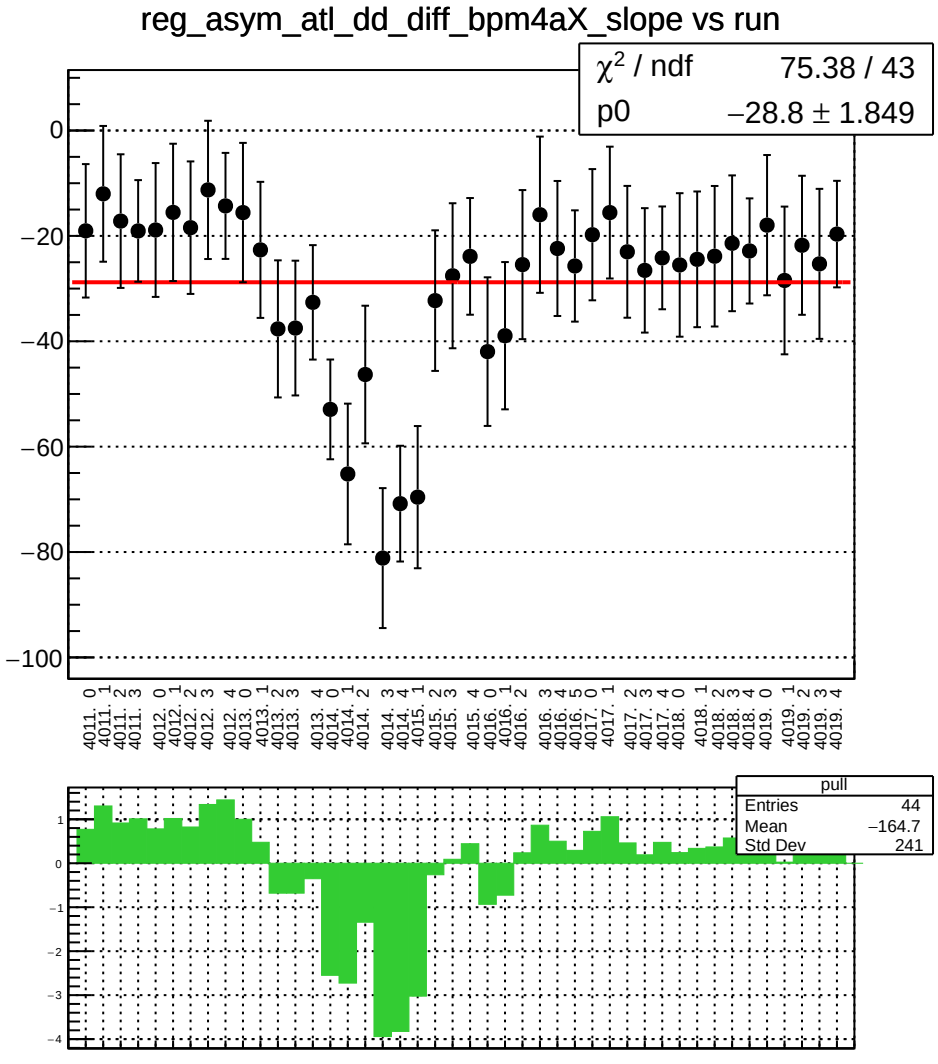

pull1D
Entries 44
Mean 0.03595
Std Dev 0.5575
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

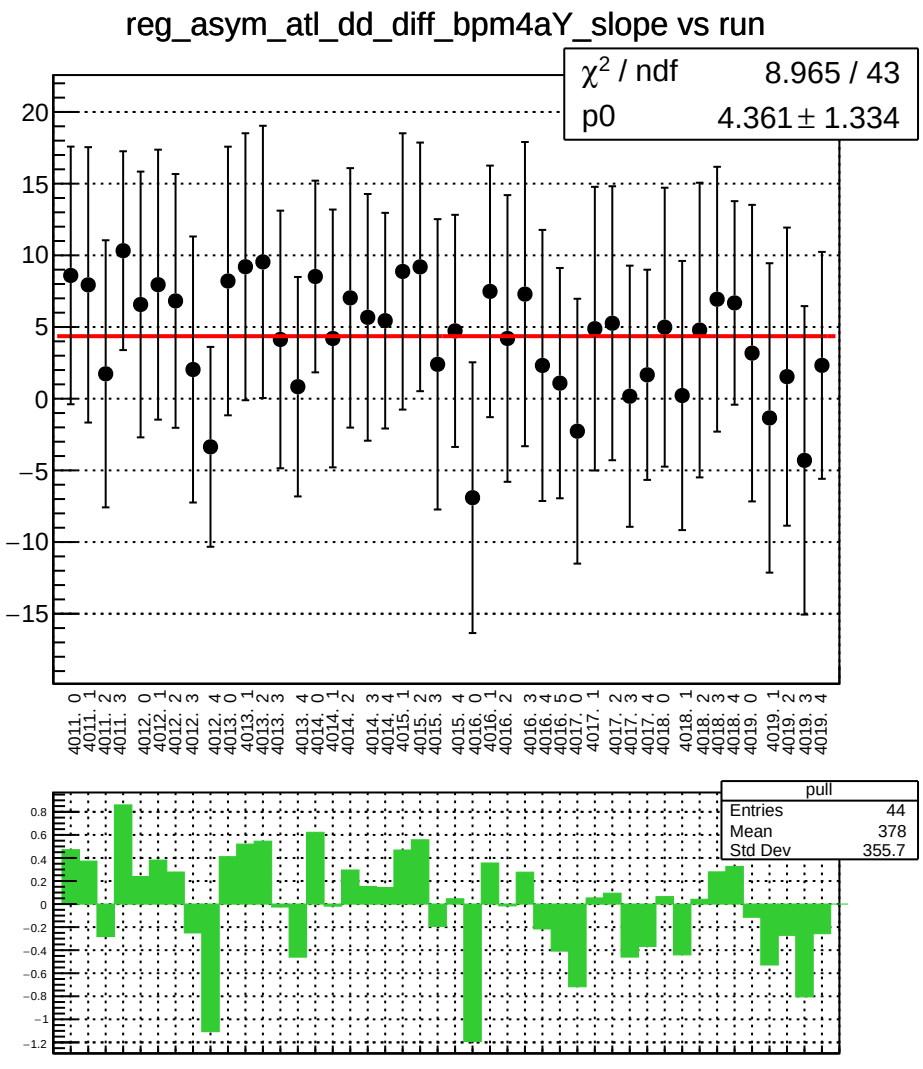

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 5900 / 43
p0 −46.06 ± 0.1356
pull
Entries 44
Mean 19.23
Std Dev 25.83
pull1D
Entries 44
Mean −2.236
Std Dev 5.645

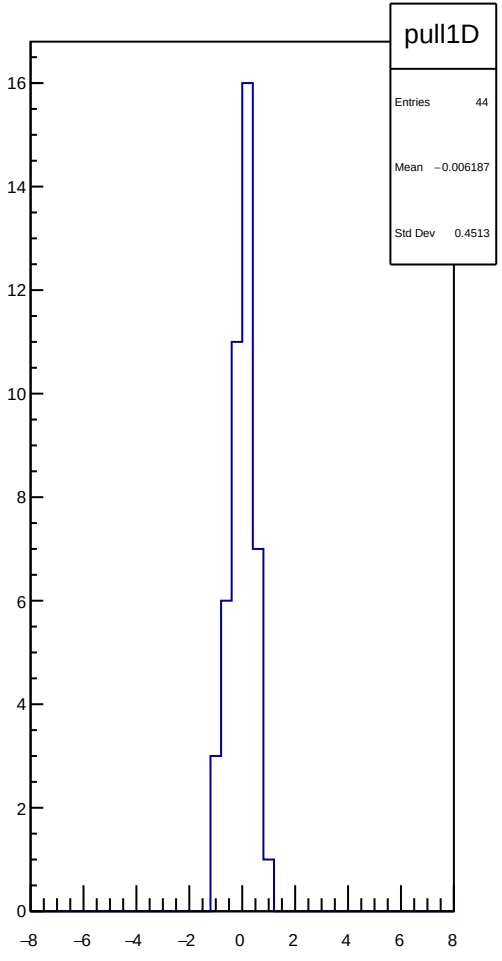

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.62 / 43
p0 22.81 ± 1.037
pull
Entries 44
Mean −18.41
Std Dev 29.74

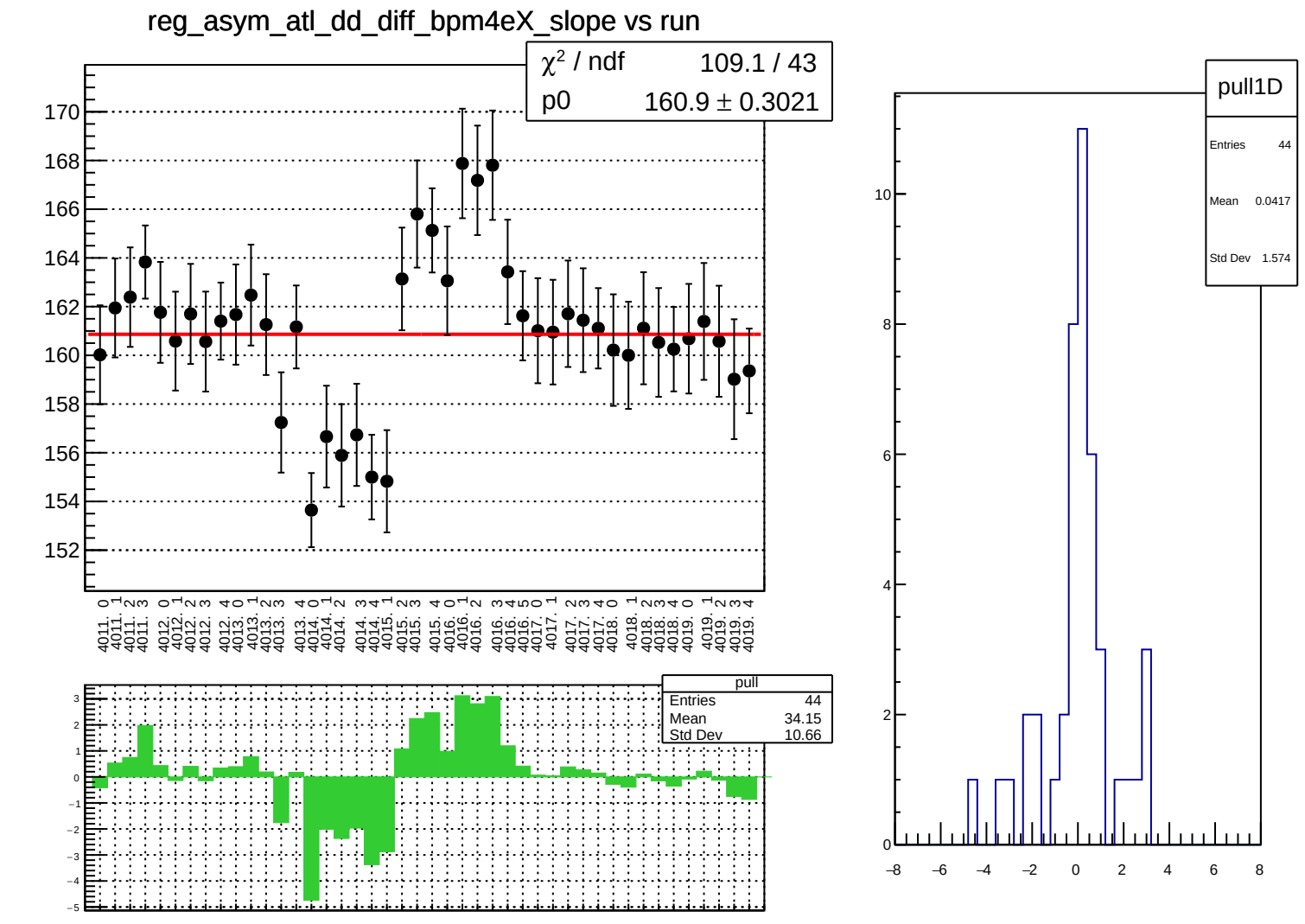

pull1D
Entries 44
Mean 0.1197
Std Dev 0.9413

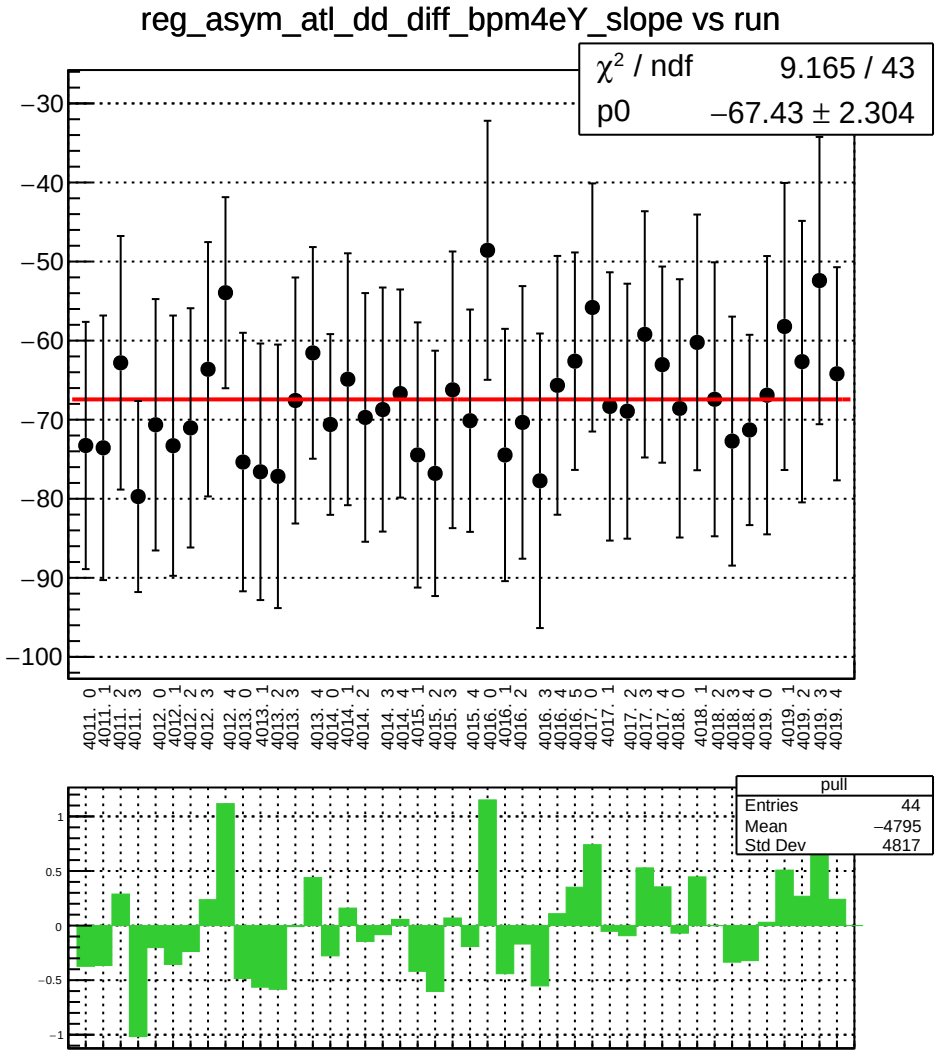

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 1.889e+04 / 43
p0 −111.3 ± 0.2056
pull
Entries 44
Mean 29.27
Std Dev 25.41
pull1D
Entries 44
Mean −1.83
Std Dev 3.576

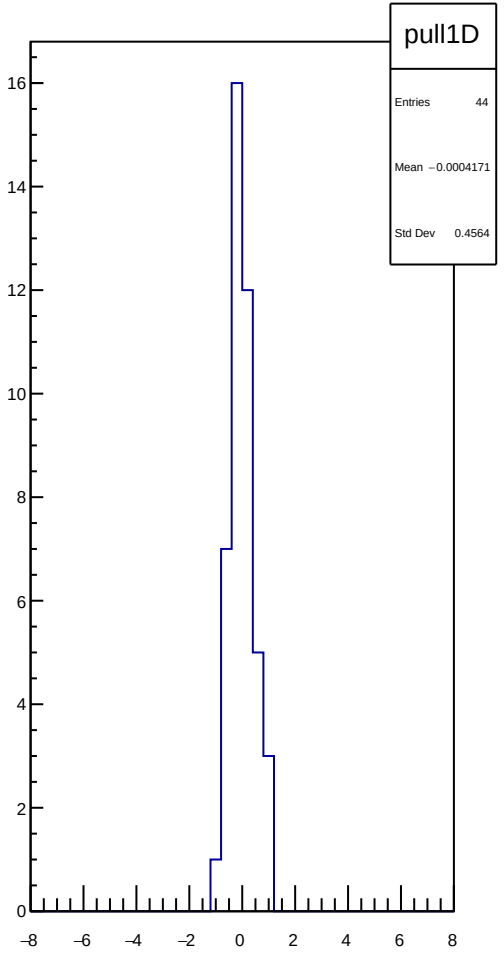

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 75.38 / 43
p0 −28.8 ± 1.849
0
−20
−40
−60
−80
−100
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −164.7
Std Dev 241
1
0
−1
−2
−3
−4
pull1D
Entries 44
Mean −0.004121
Std Dev 1.309
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

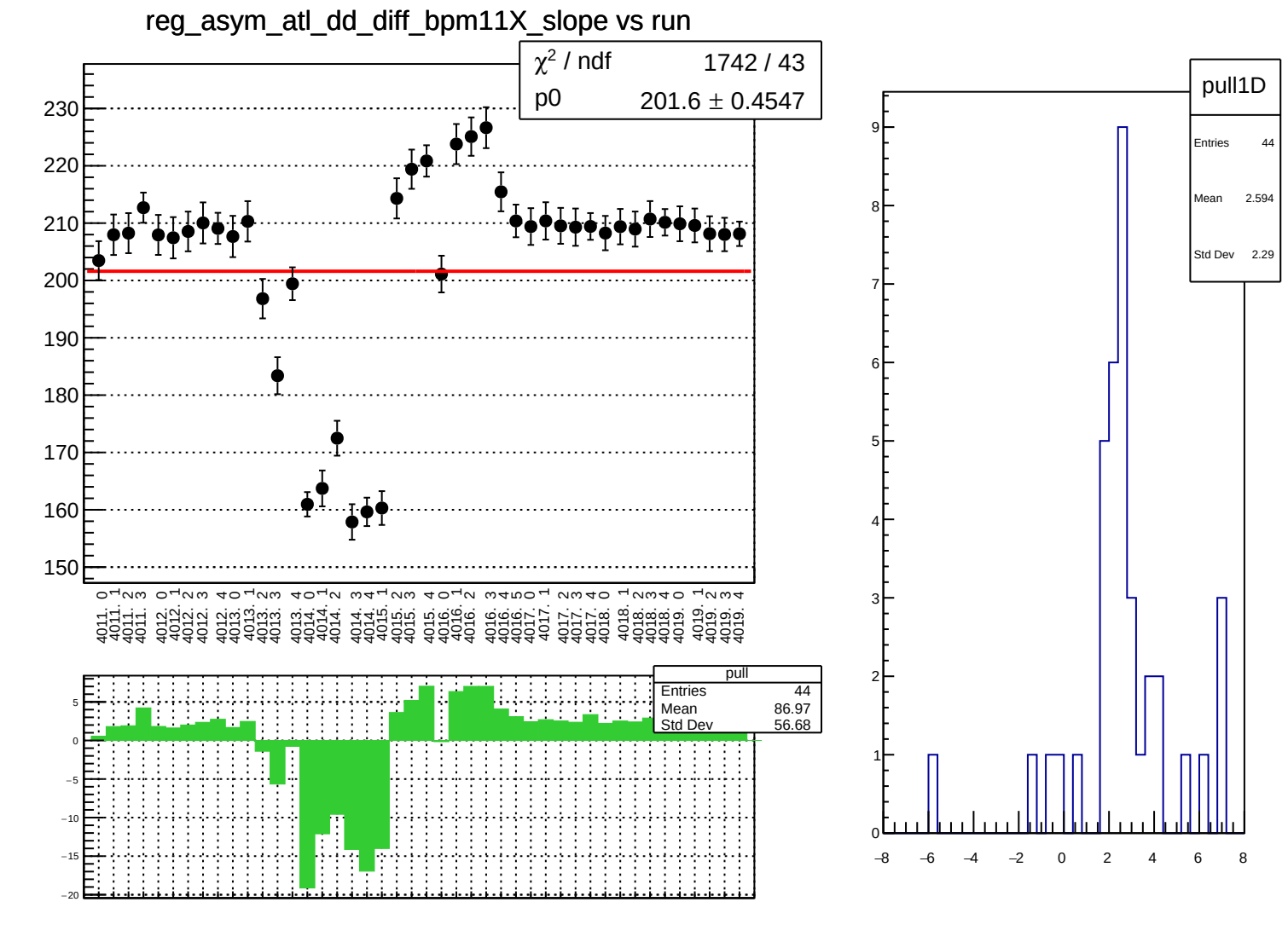

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.965 / 43
p0 4.361 ± 1.334
pull
Entries 44
Mean 378
Std Dev 355.7

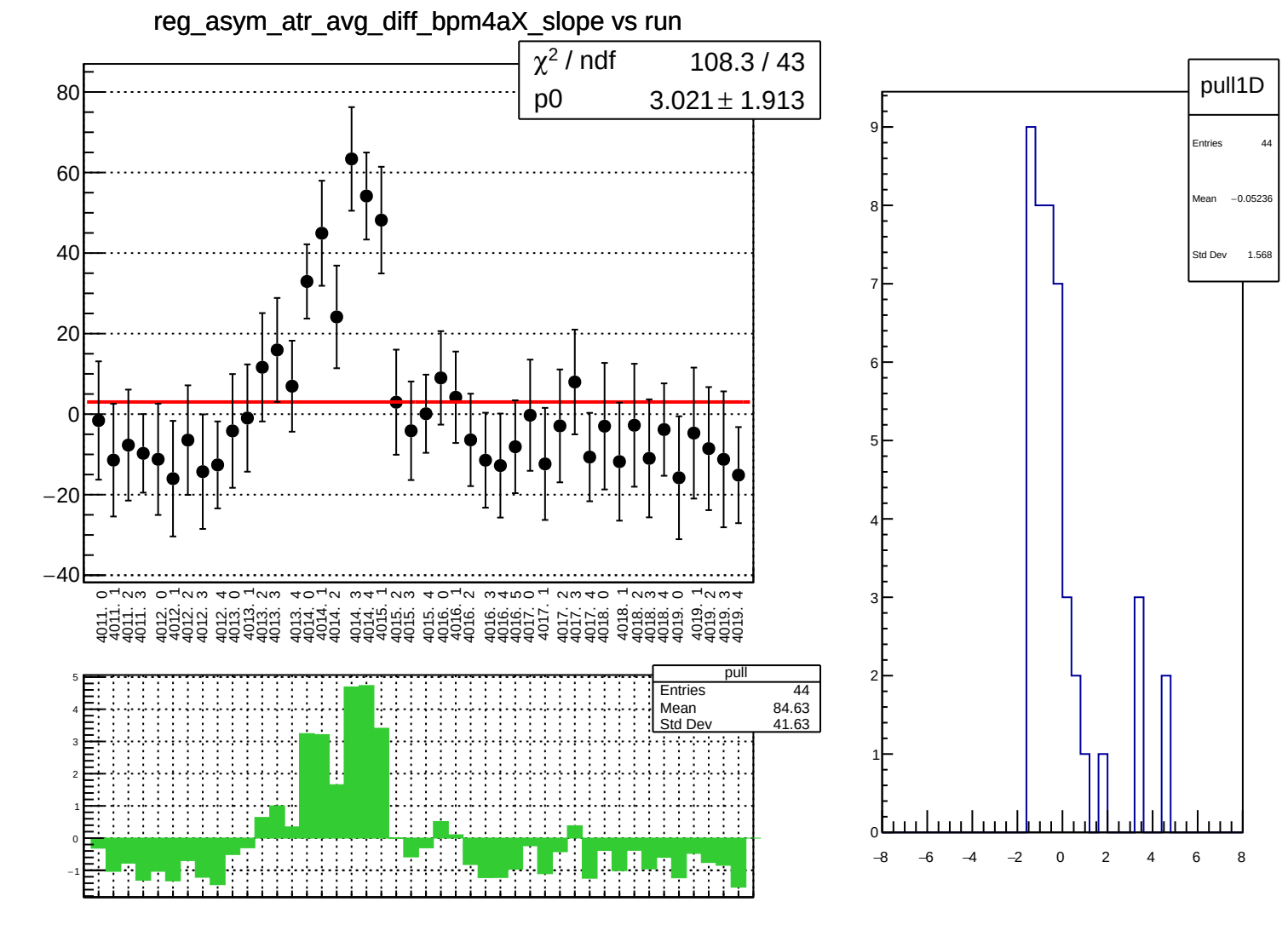

pull1D
Entries 44
Mean −0.006187
Std Dev 0.4513

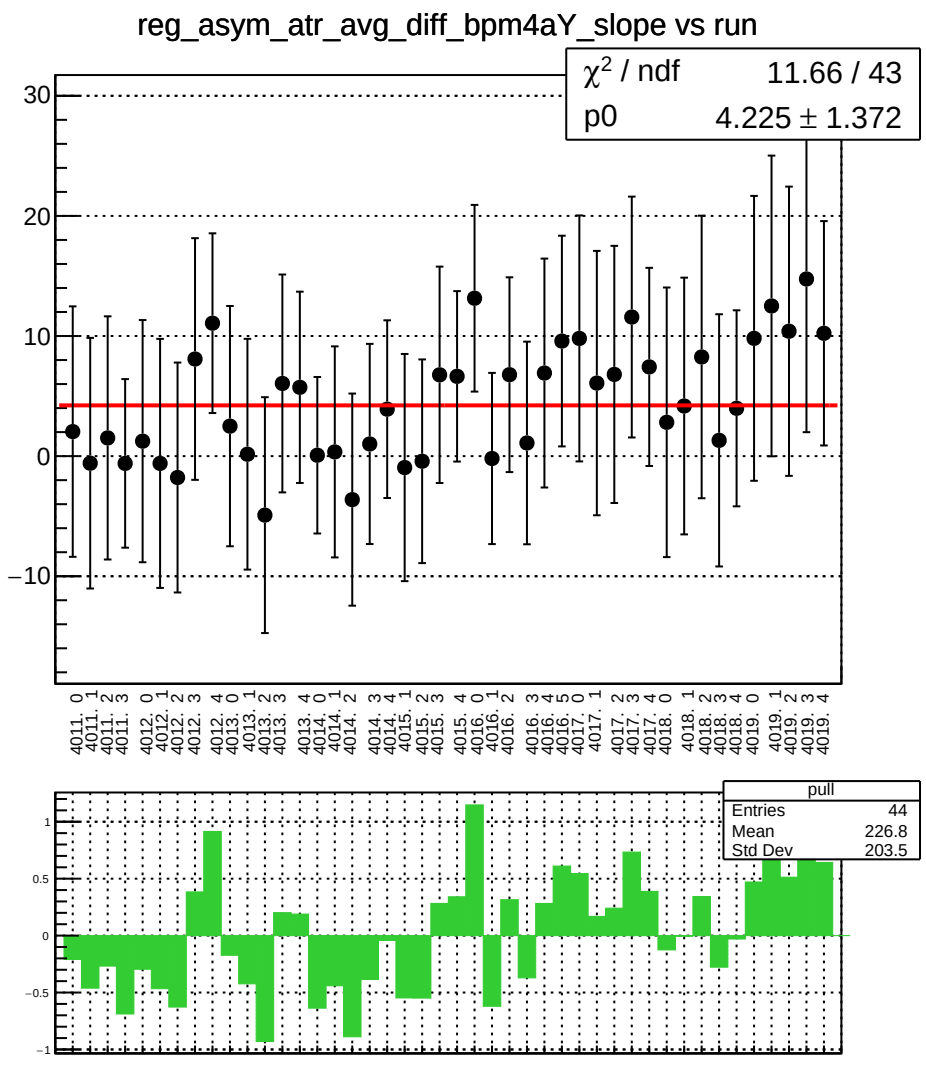

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 109.1 / 43
p0 160.9 ± 0.3021
170
168
166
164
162
160
158
156
154
152
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 34.15
Std Dev 10.66
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 44
Mean 0.0417
Std Dev 1.574
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

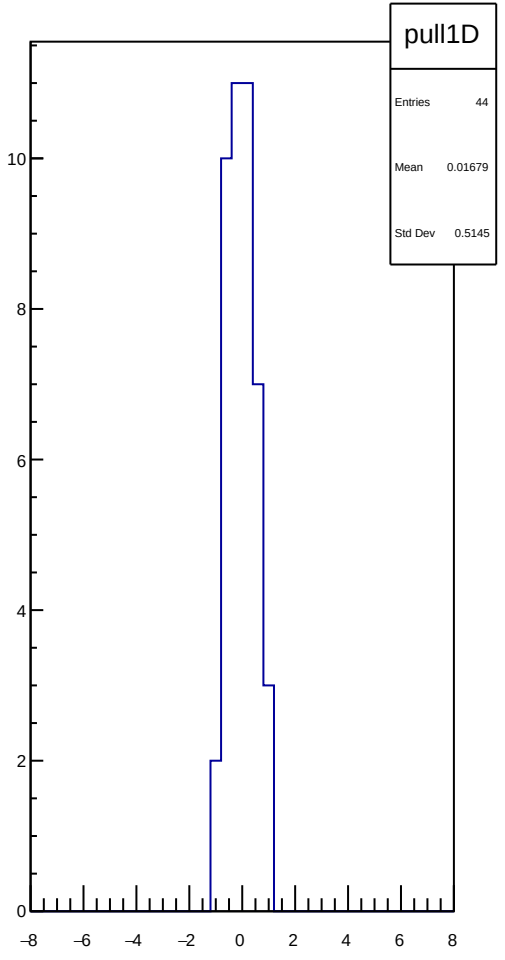

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.165 / 43
p0 −67.43 ± 2.304
pull
Entries 44
Mean −4795
Std Dev 4817

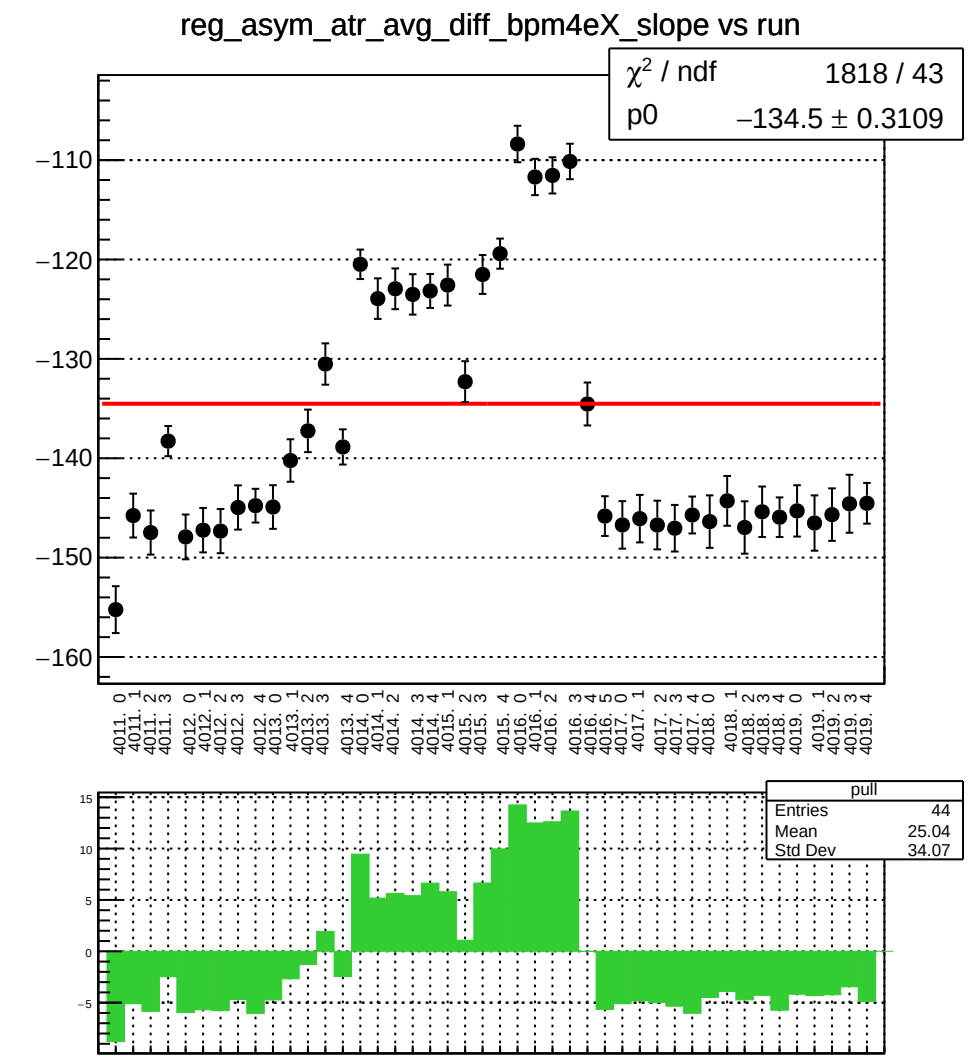

pull1D
Entries 44
Mean −0.0004171
Std Dev 0.4564

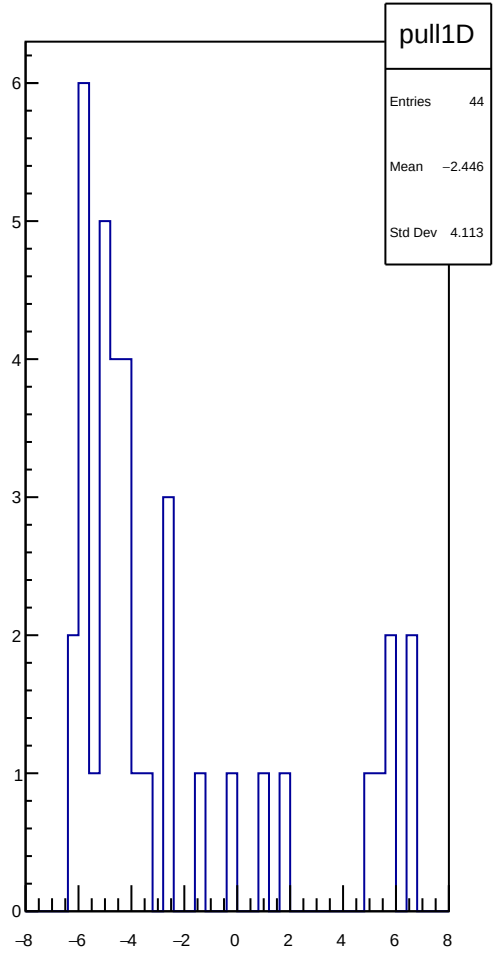

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 1742 / 43
p0 201.6 ± 0.4547
pull
Entries 44
Mean 86.97
Std Dev 56.68
pull1D
Entries 44
Mean 2.594
Std Dev 2.29

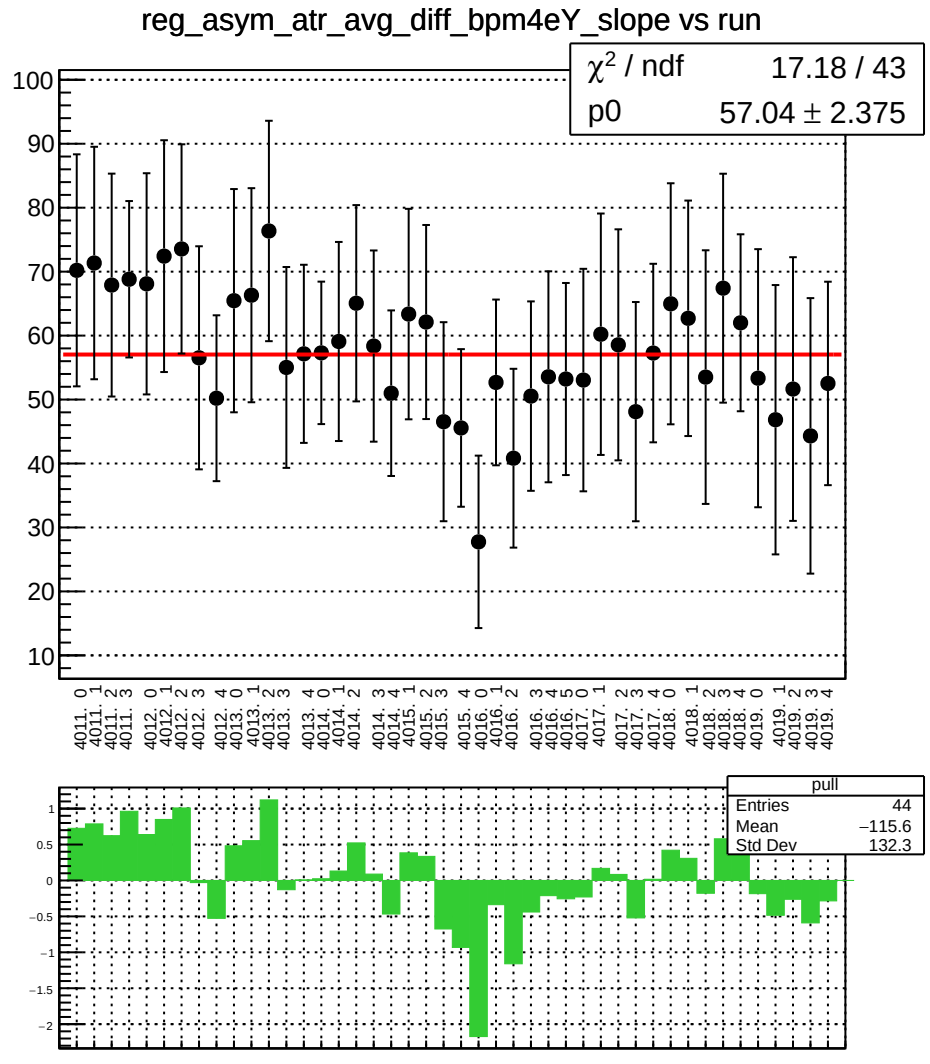

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 108.3 / 43
p0 3.021 ± 1.913
pull
Entries 44
Mean 84.63
Std Dev 41.63
pull1D
Entries 44
Mean −0.05236
Std Dev 1.568

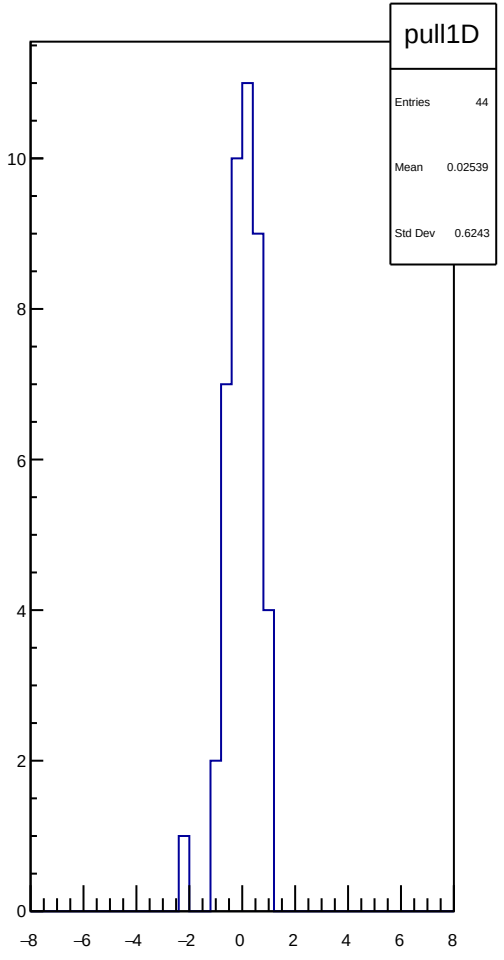

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.66 / 43
p0 4.225 ± 1.372
pull
Entries 44
Mean 226.8
Std Dev 203.5

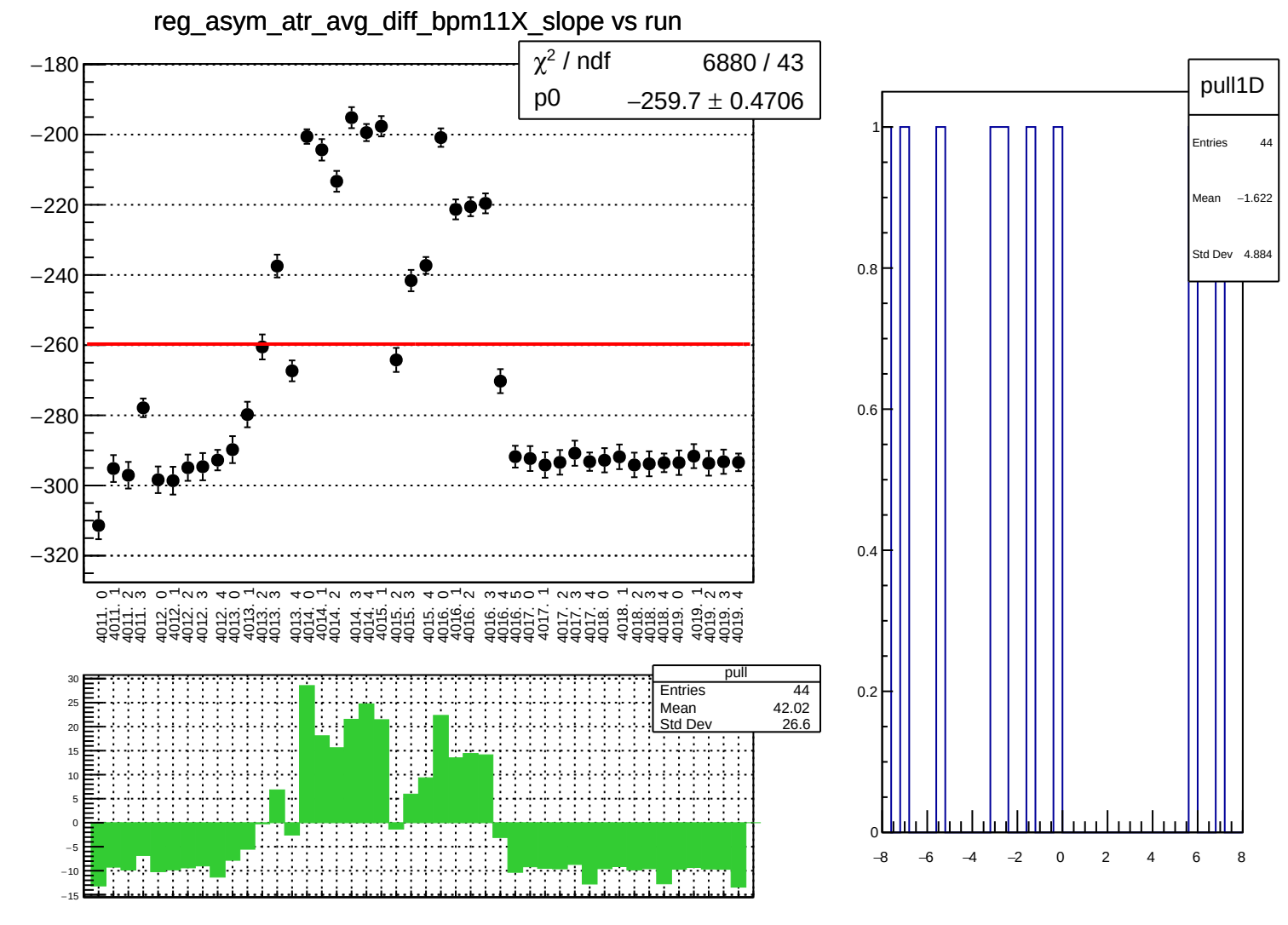

pull1D
Entries 44
Mean 0.01679
Std Dev 0.5145

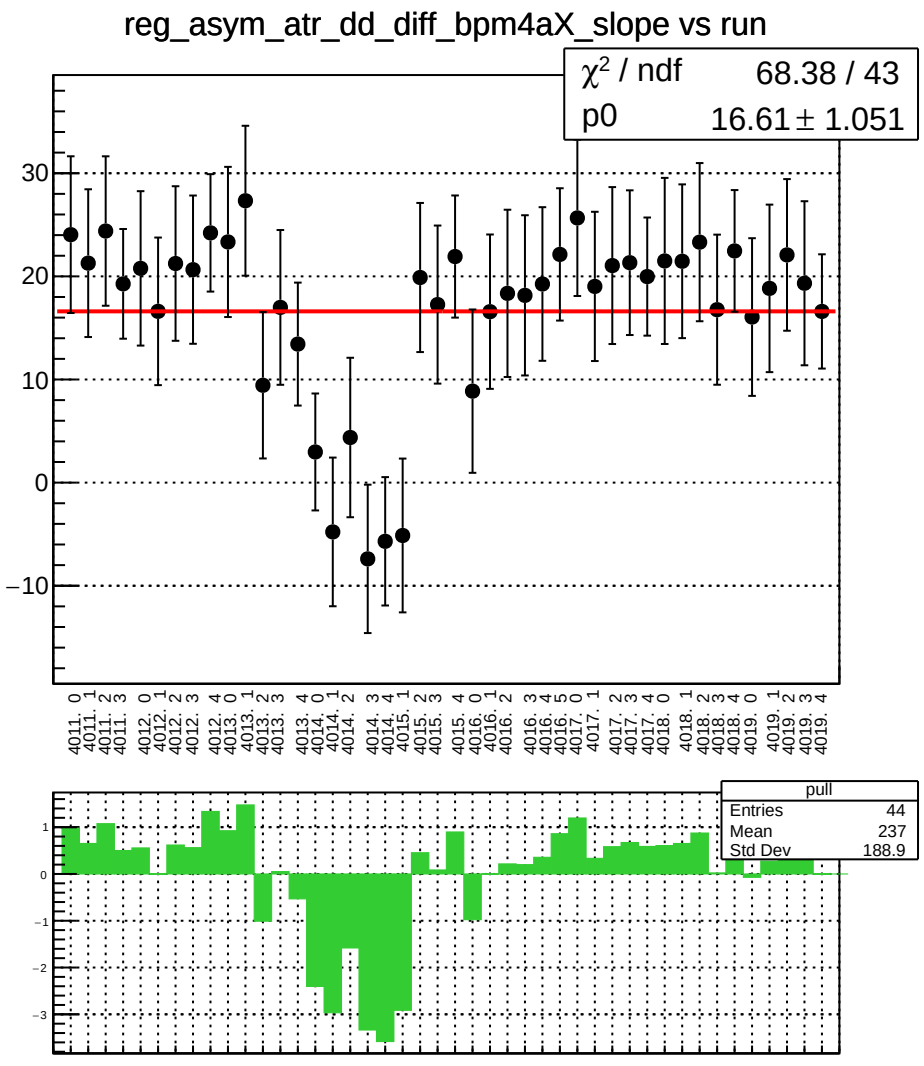

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 1818 / 43
p0 −134.5 ± 0.3109
pull
Entries 44
Mean 25.04
Std Dev 34.07

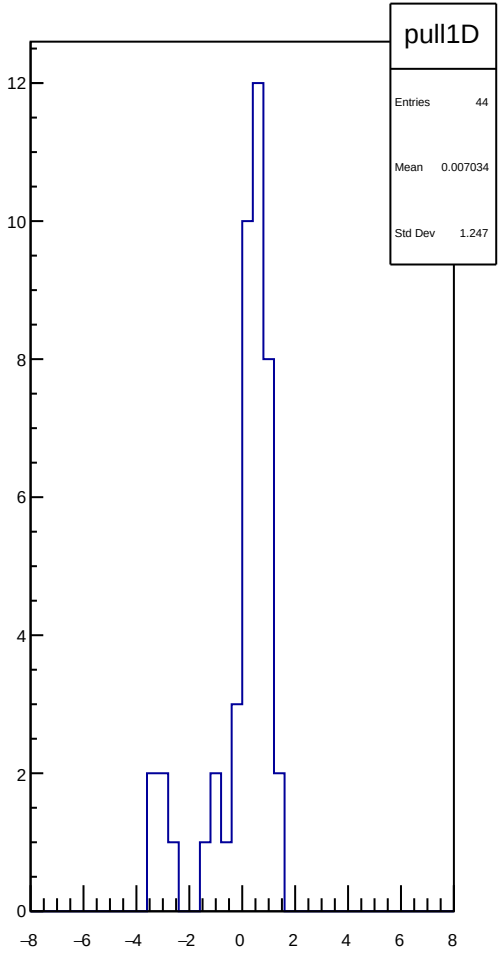

pull1D
Entries 44
Mean −2.446
Std Dev 4.113

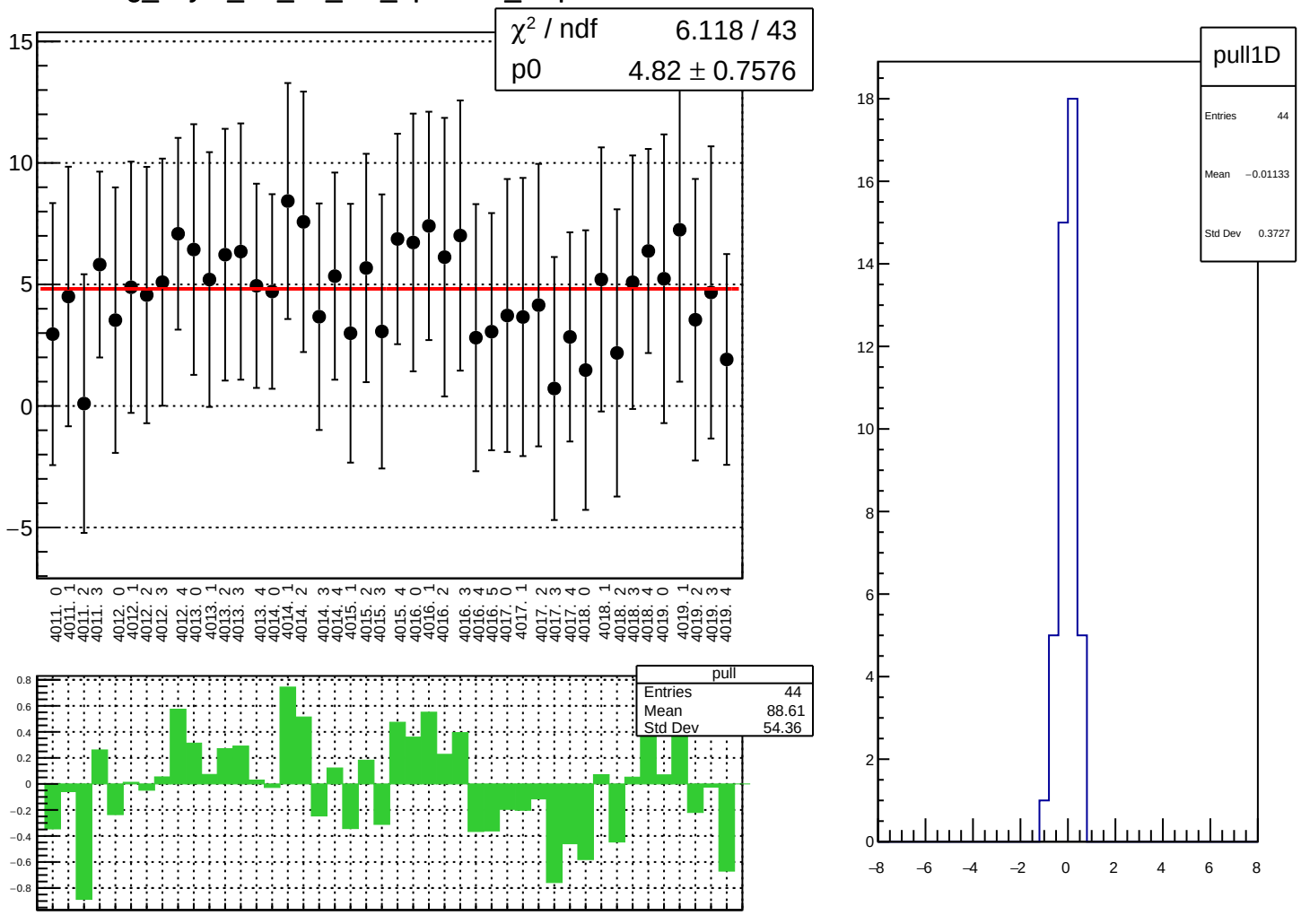

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.18 / 43
p0 57.04 ± 2.375
pull
Entries 44
Mean −115.6
Std Dev 132.3

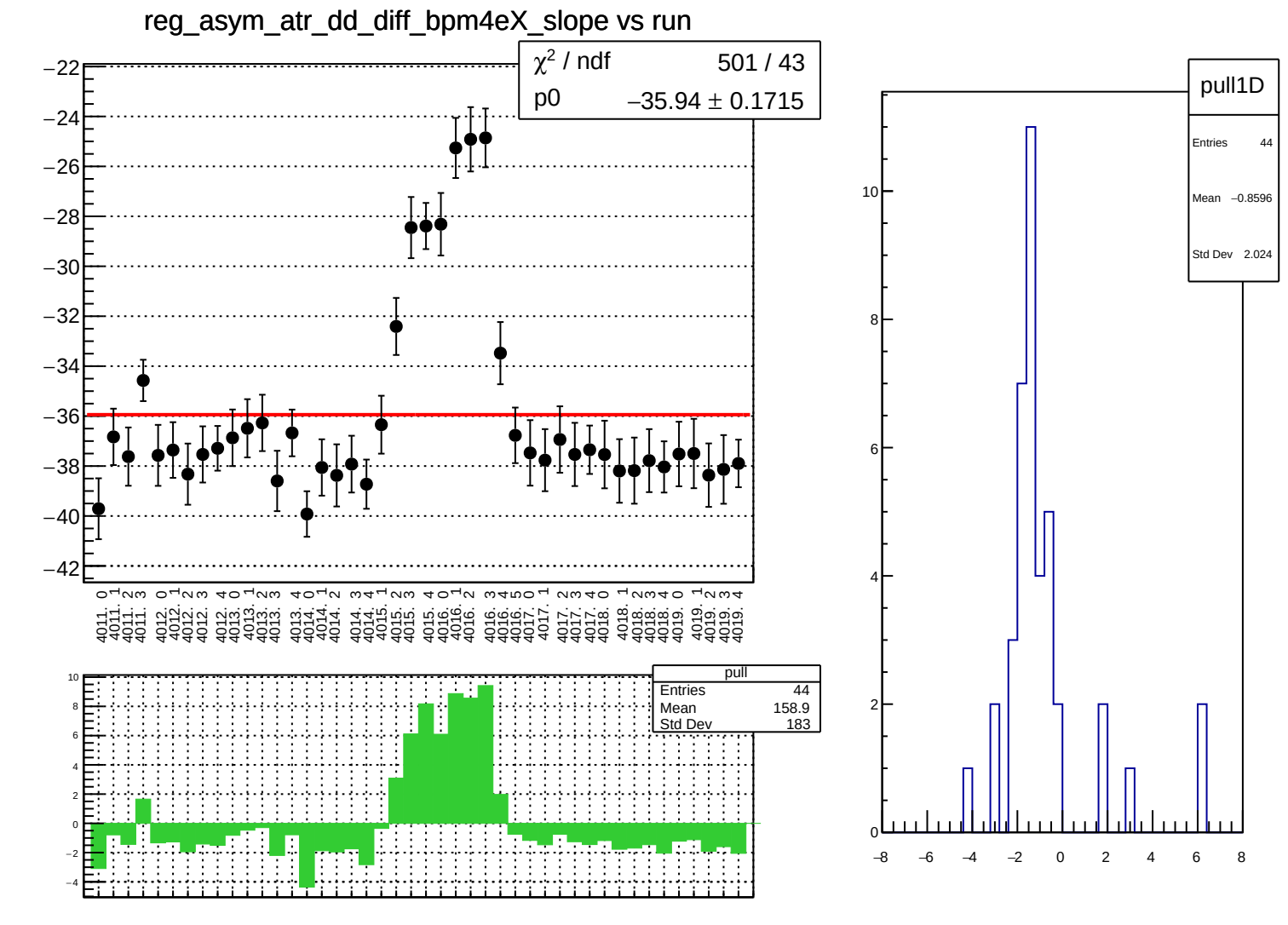

pull1D
Entries 44
Mean 0.02539
Std Dev 0.6243

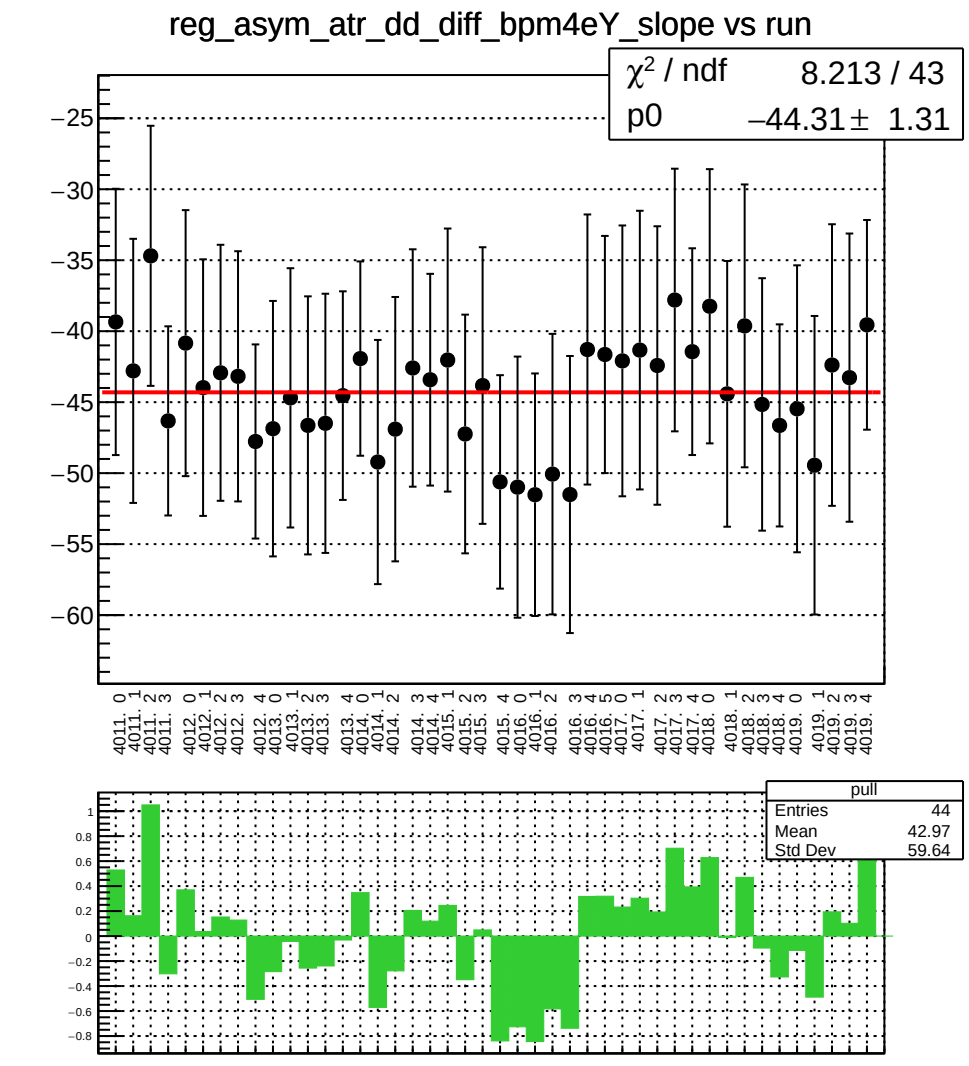

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 6880 / 43
p0 −259.7 ± 0.4706
pull
Entries 44
Mean 42.02
Std Dev 26.6
pull1D
Entries 44
Mean −1.622
Std Dev 4.884

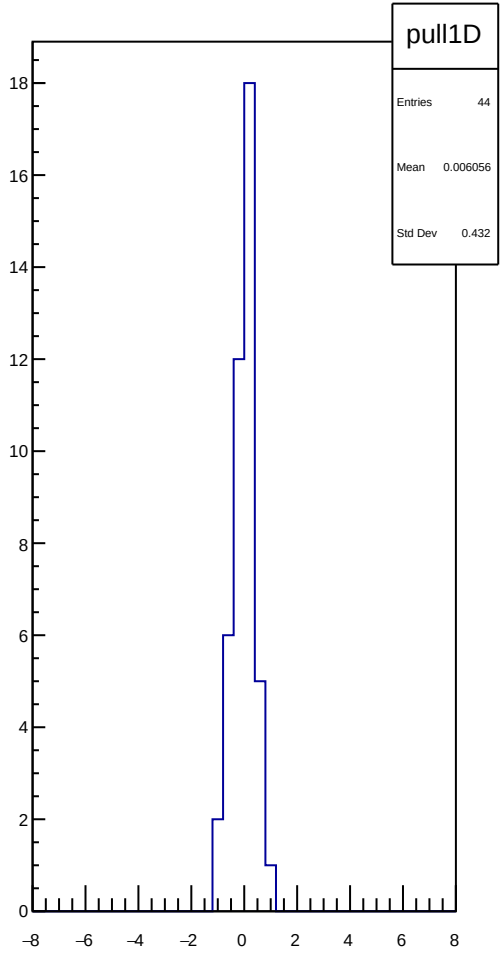

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 68.38 / 43
p0 16.61 ± 1.051
30
20
10
0
−10
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 237
Std Dev 188.9
1
0
−1
−2
−3

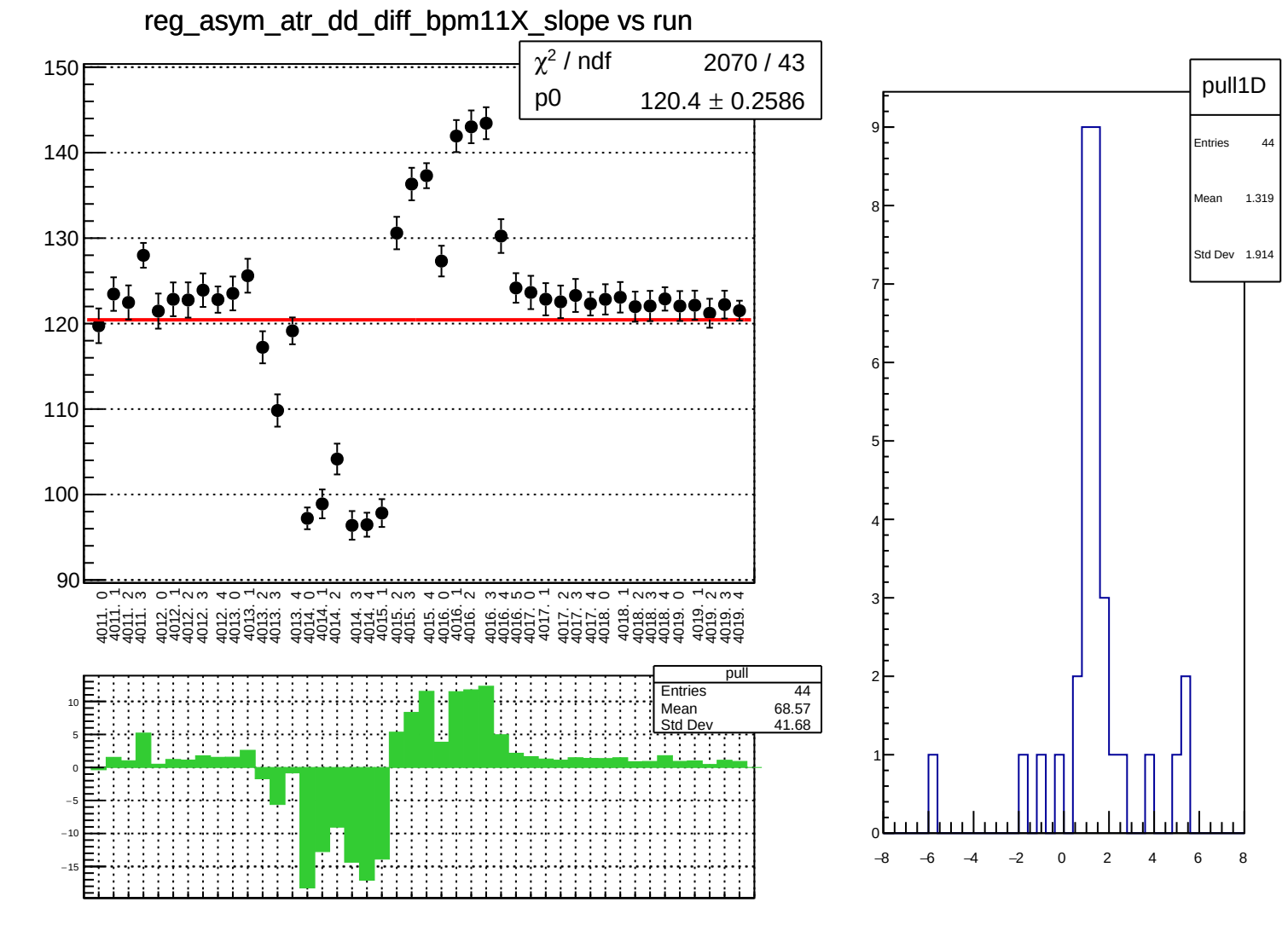

pull1D
Entries 44
Mean 0.007034
Std Dev 1.247
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

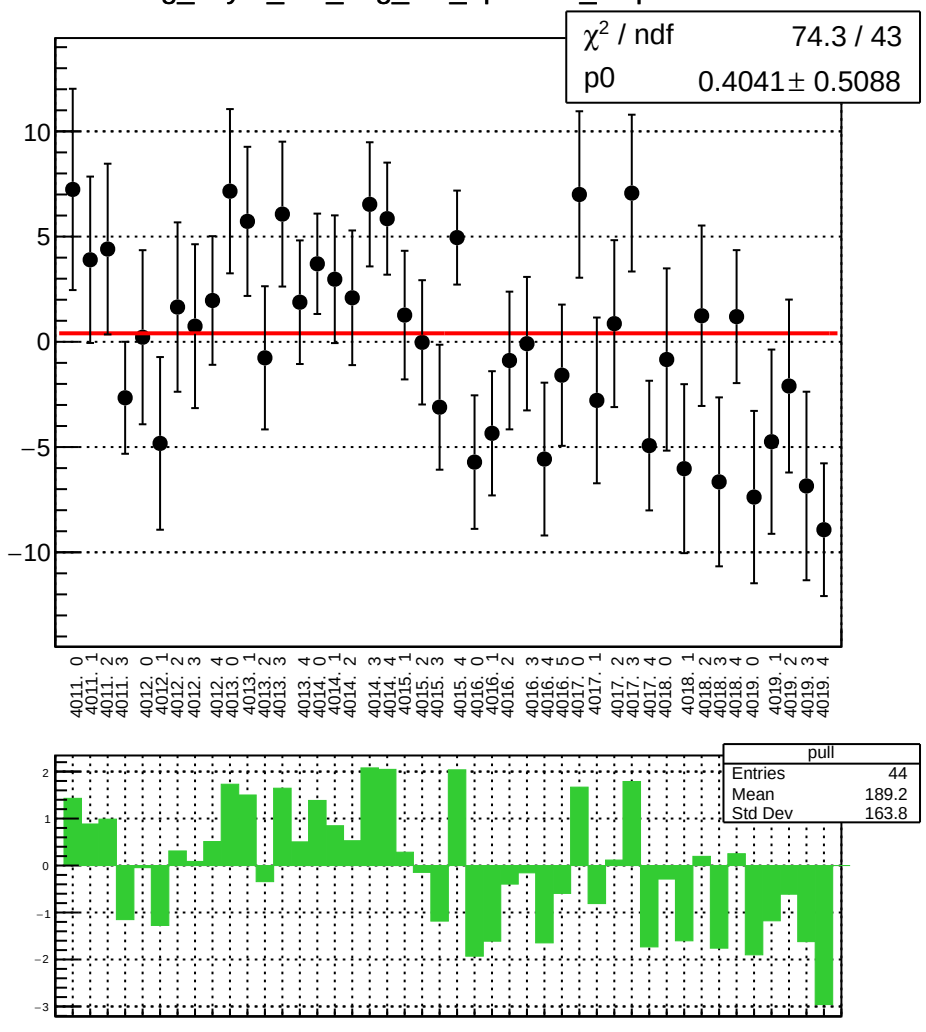

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.118 / 43
p0 4.82 ± 0.7576
pull
Entries 44
Mean 88.61
Std Dev 54.36
pull1D
Entries 44
Mean −0.01133
Std Dev 0.3727

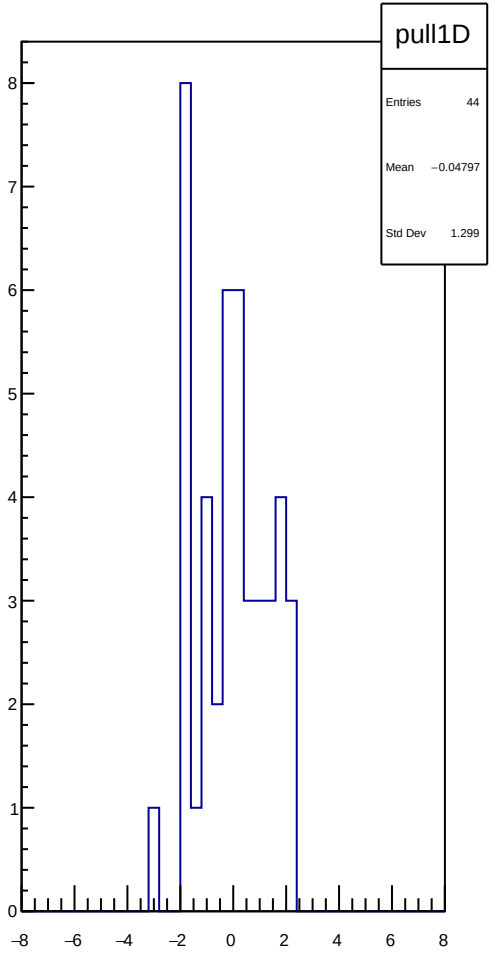

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 501 / 43
p0 −35.94 ± 0.1715
pull
Entries 44
Mean 158.9
Std Dev 183
pull1D
Entries 44
Mean −0.8596
Std Dev 2.024

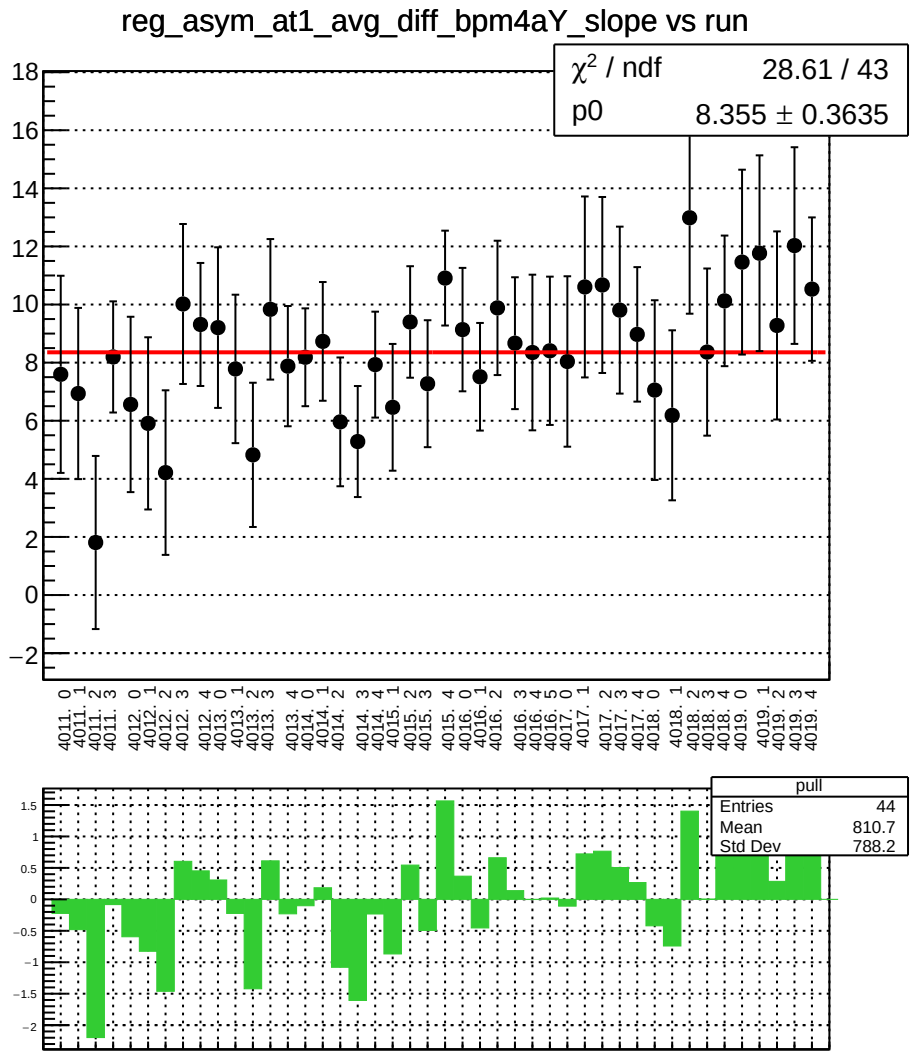

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.213 / 43
p0 −44.31 ± 1.31
pull
Entries 44
Mean 42.97
Std Dev 59.64

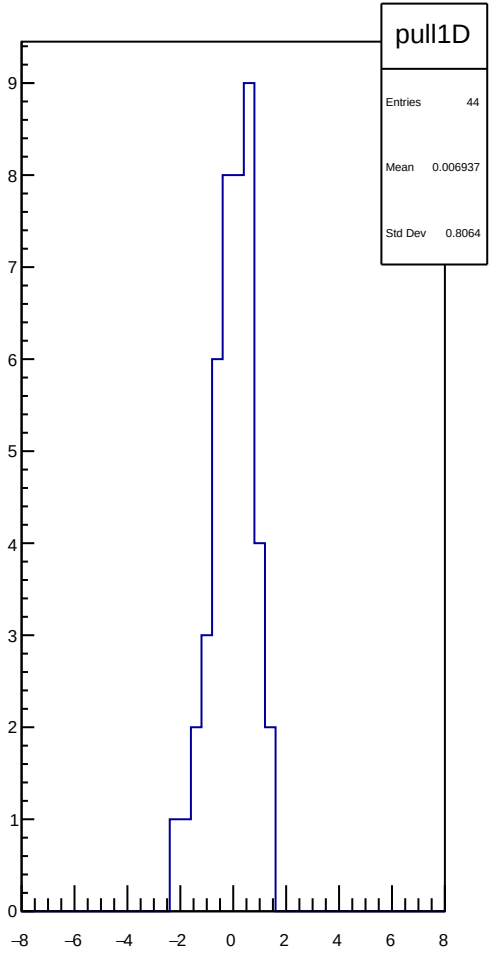

pull1D
Entries 44
Mean 0.006056
Std Dev 0.432

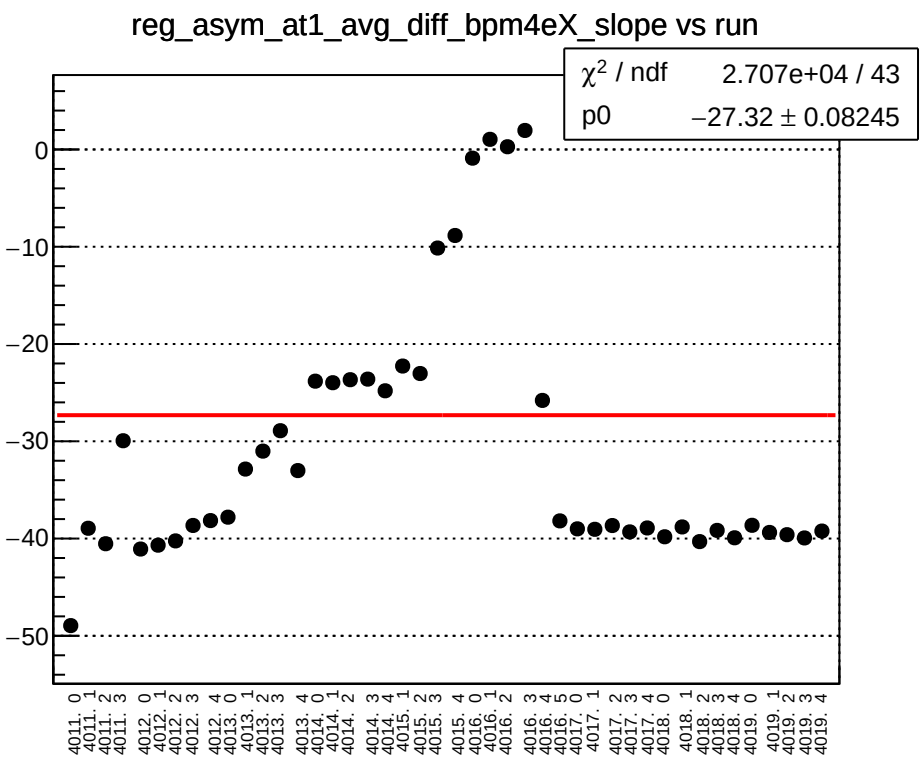

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 2070 / 43
p0 120.4 ± 0.2586
150
140
130
120
110
100
90
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 68.57
Std Dev 41.68
10
5
0
−5
−10
−15
pull1D
Entries 44
Mean 1.319
Std Dev 1.914
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

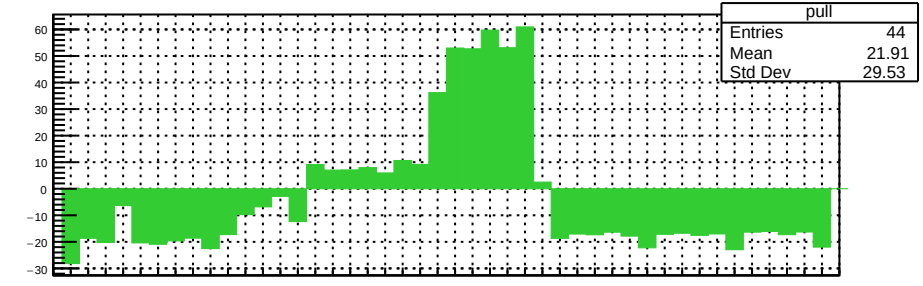

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 74.3 / 43
p0 0.4041± 0.5088
pull
Entries 44
Mean 189.2
Std Dev 163.8

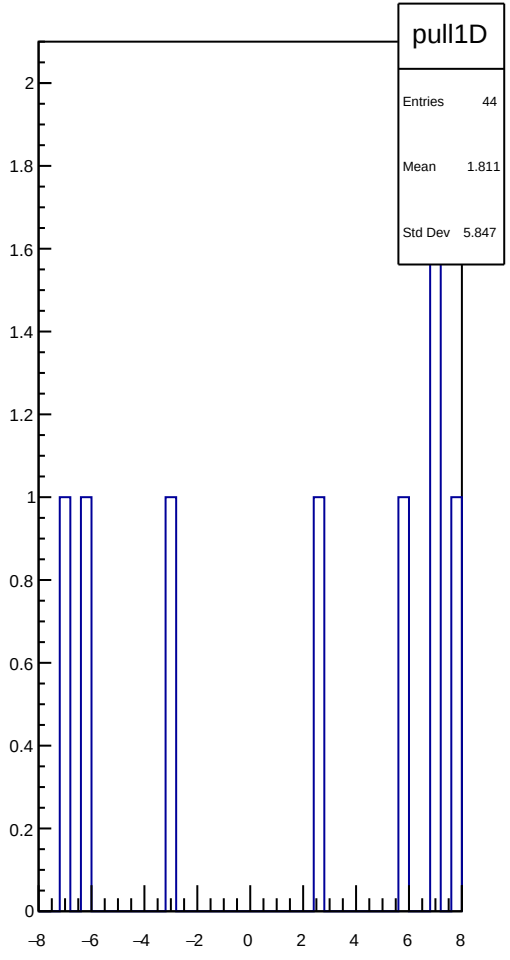

pull1D
Entries 44
Mean −0.04797
Std Dev 1.299

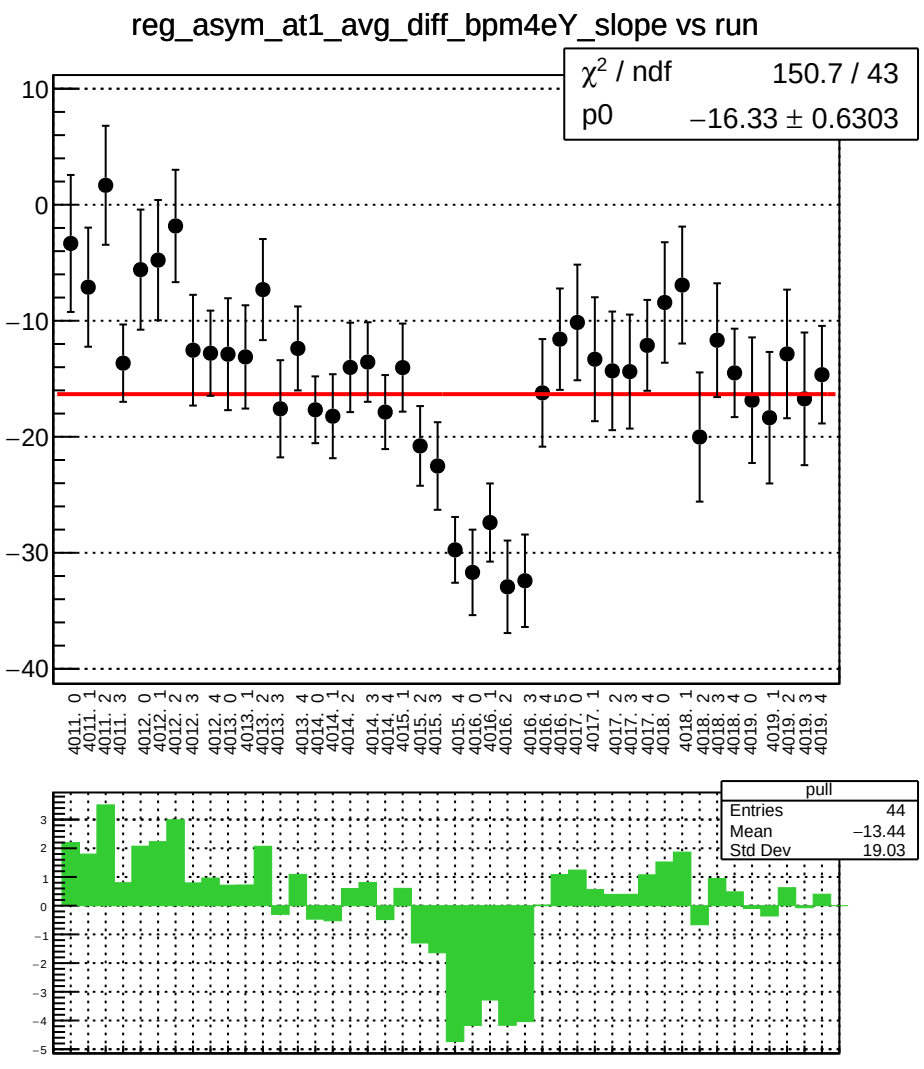

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.61 / 43
p0 8.355 ± 0.3635
pull
Entries 44
Mean 810.7
Std Dev 788.2

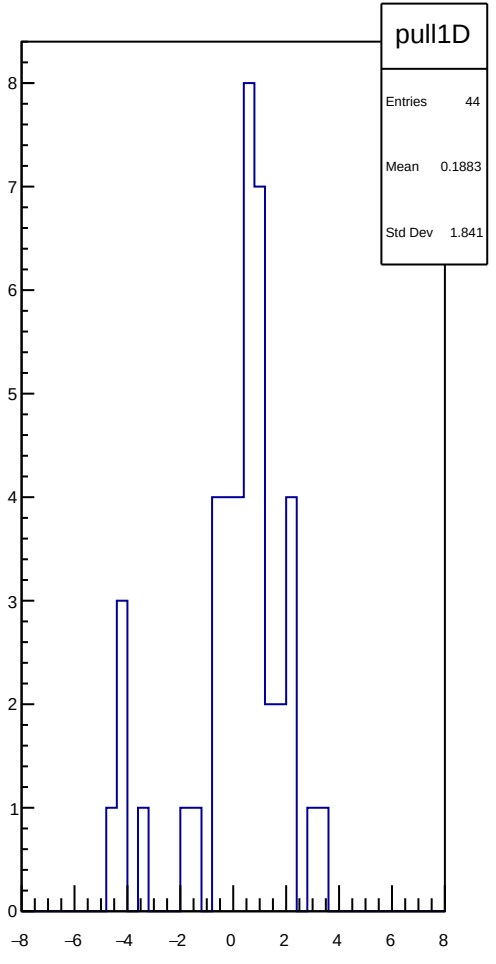

pull1D
Entries 44
Mean 0.006937
Std Dev 0.8064

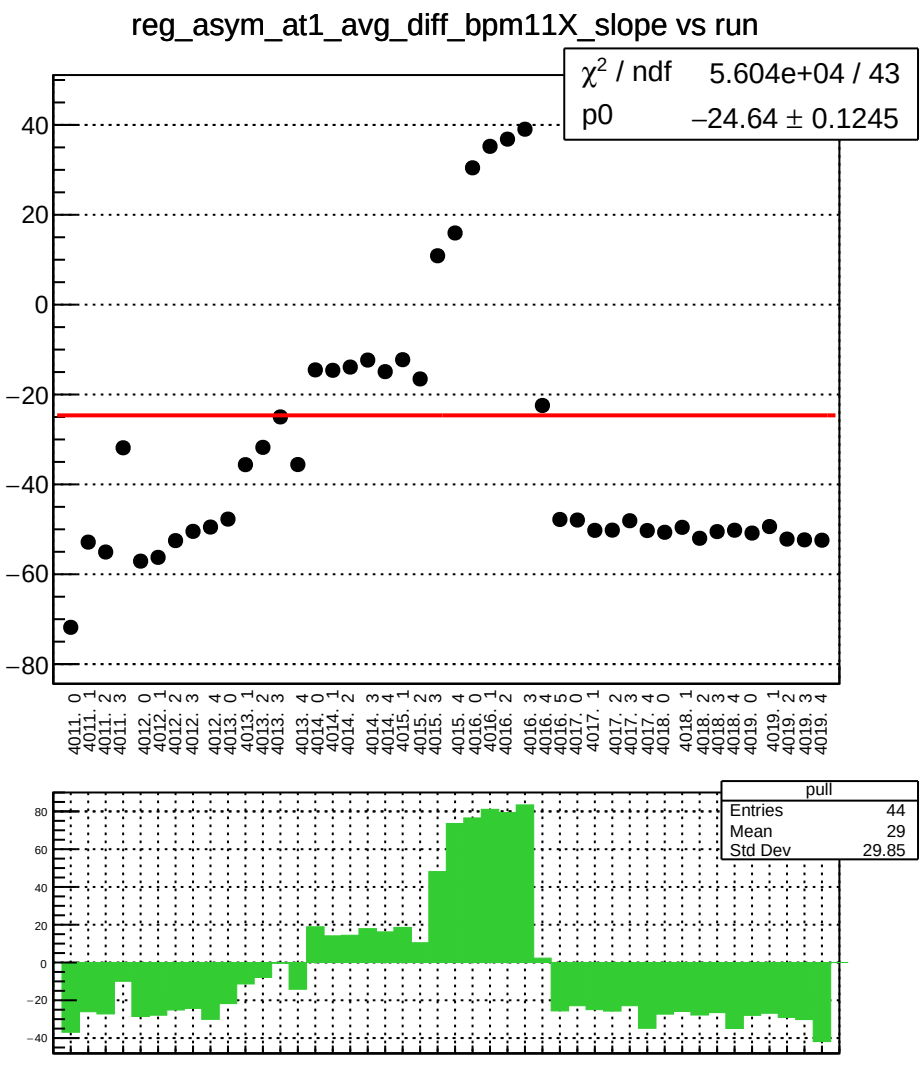

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.707e+04 / 43
p0 −27.32 ± 0.08245
0
−10
−20
−30
−40
−50
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4

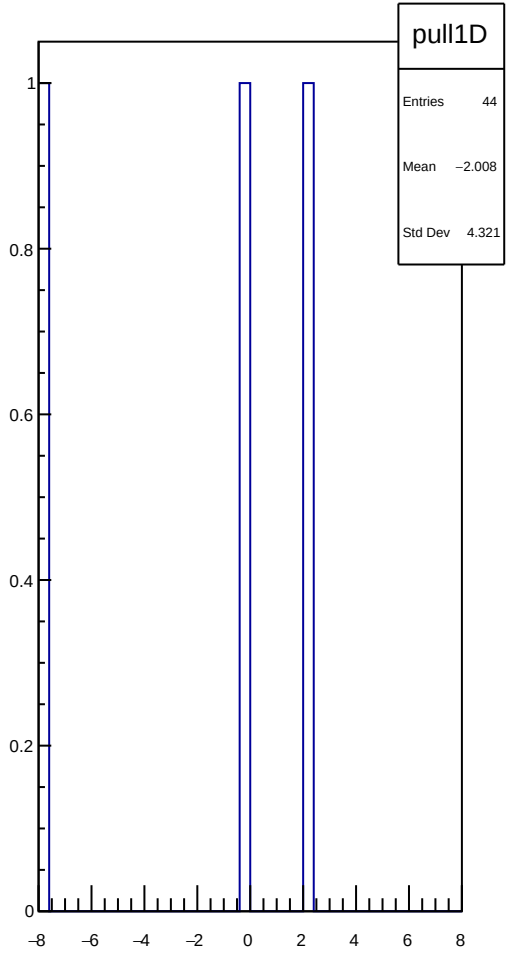

pull
Entries 44
Mean 21.91
Std Dev 29.53
60
50
40
30
20
10
0
−10
−20
−30

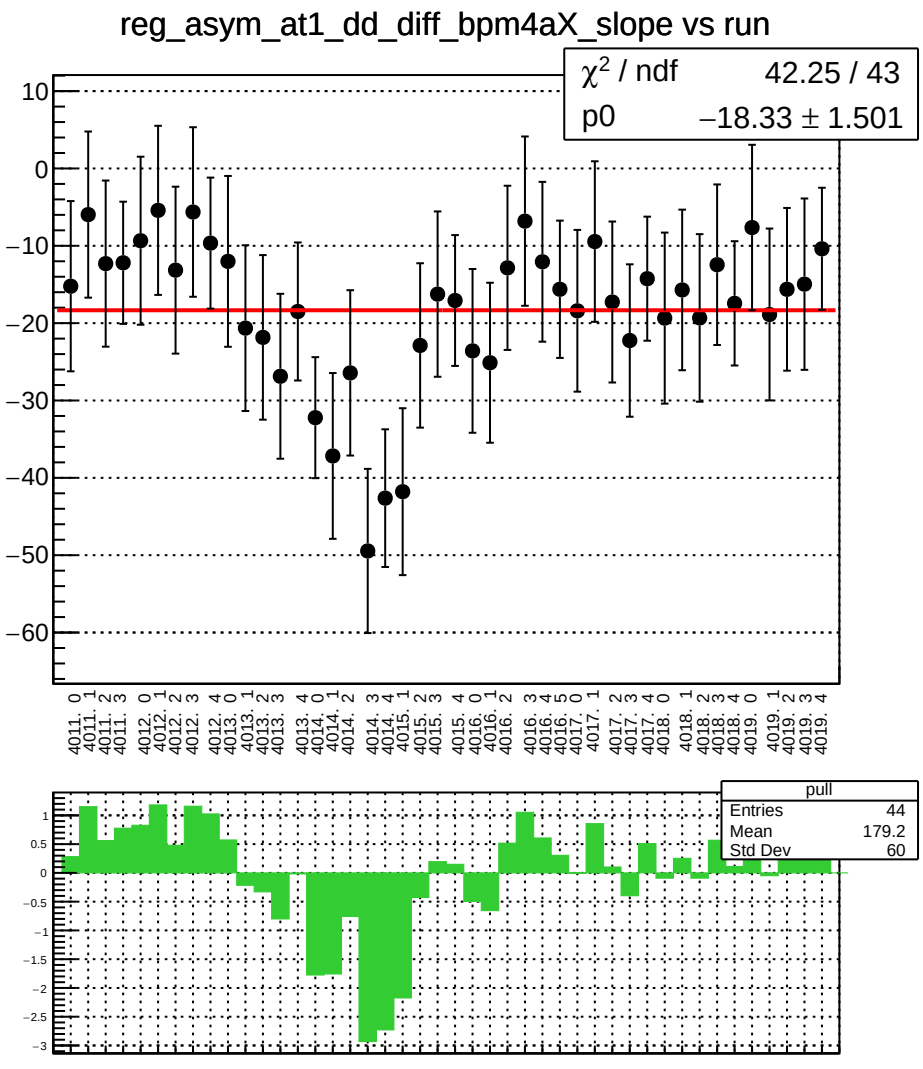

pull1D
Entries 44
Mean 1.811
Std Dev 5.847
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

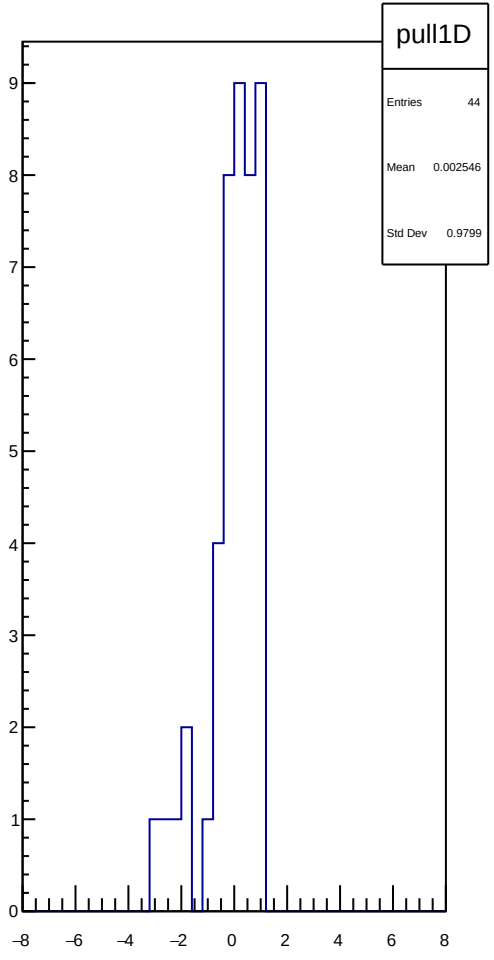

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 150.7 / 43
p0 −16.33 ± 0.6303
pull
Entries 44
Mean −13.44
Std Dev 19.03

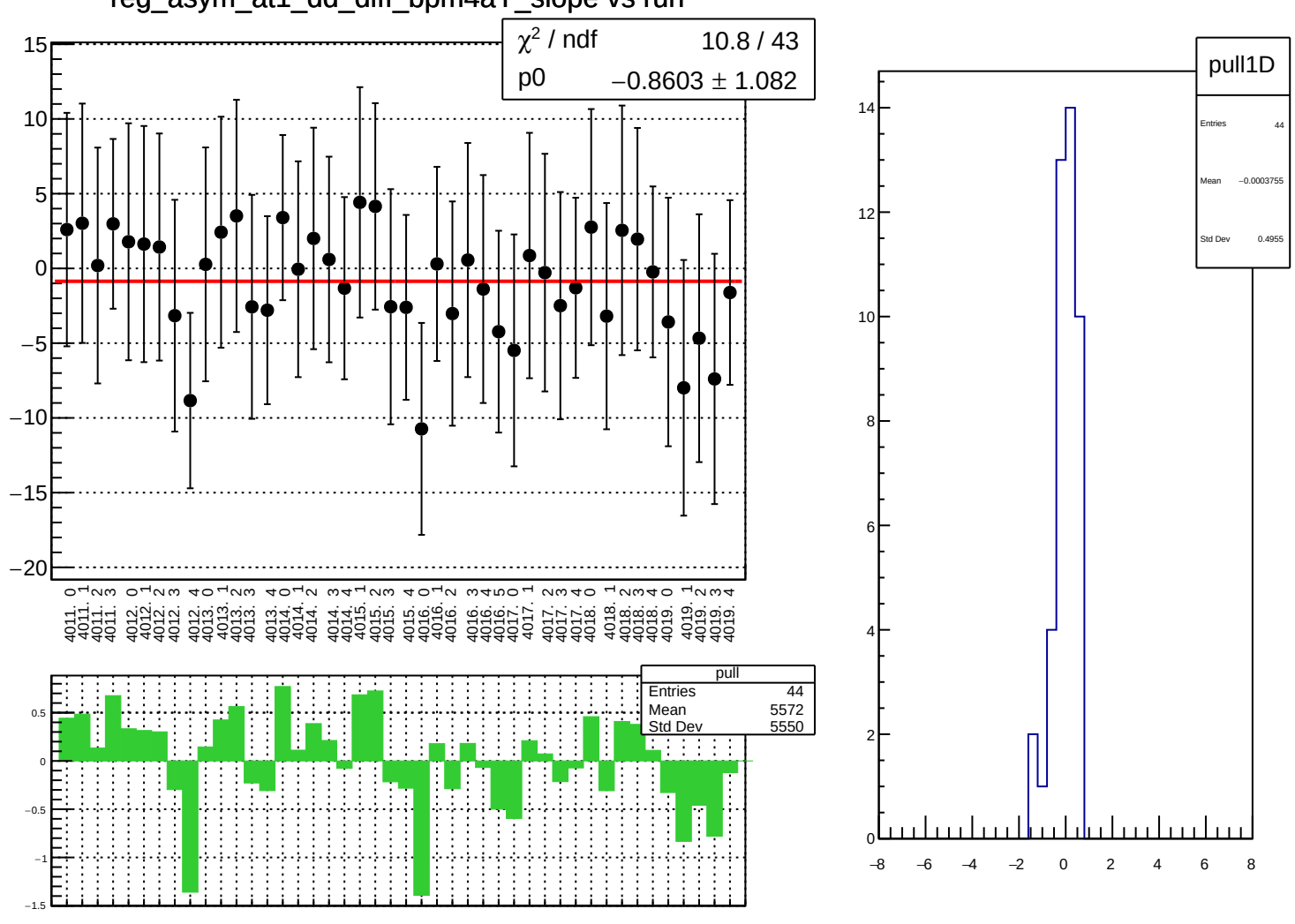

pull1D
Entries 44
Mean 0.1883
Std Dev 1.841

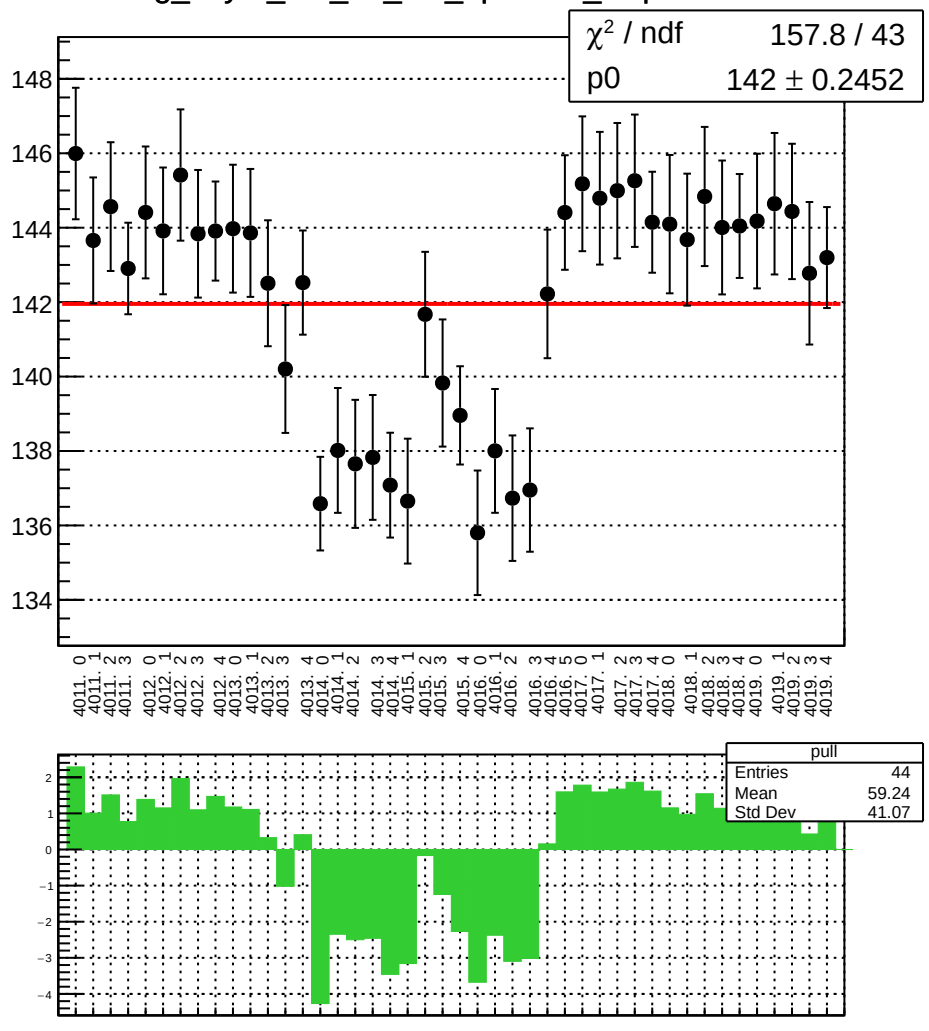

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 5.604e+04 / 43
p0 −24.64 ± 0.1245
pull
Entries 44
Mean 29
Std Dev 29.85

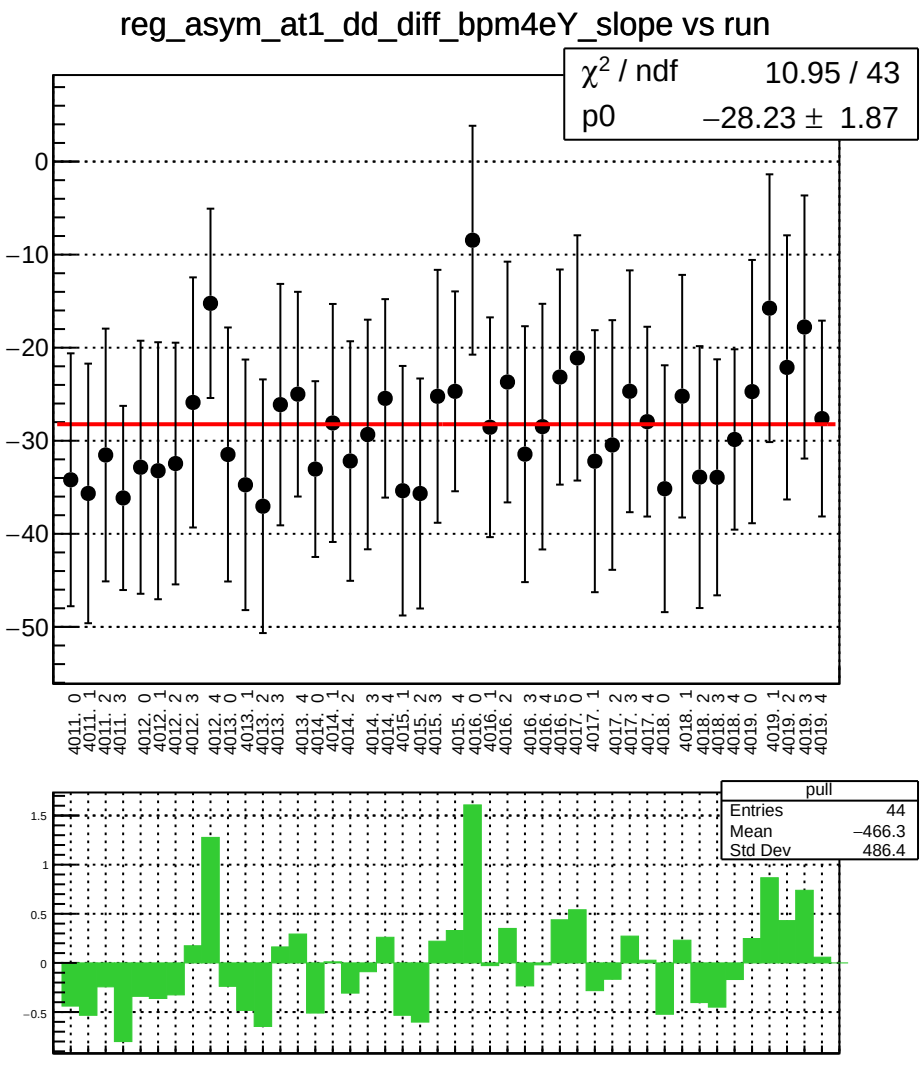

pull1D
Entries 44
Mean −2.008
Std Dev 4.321

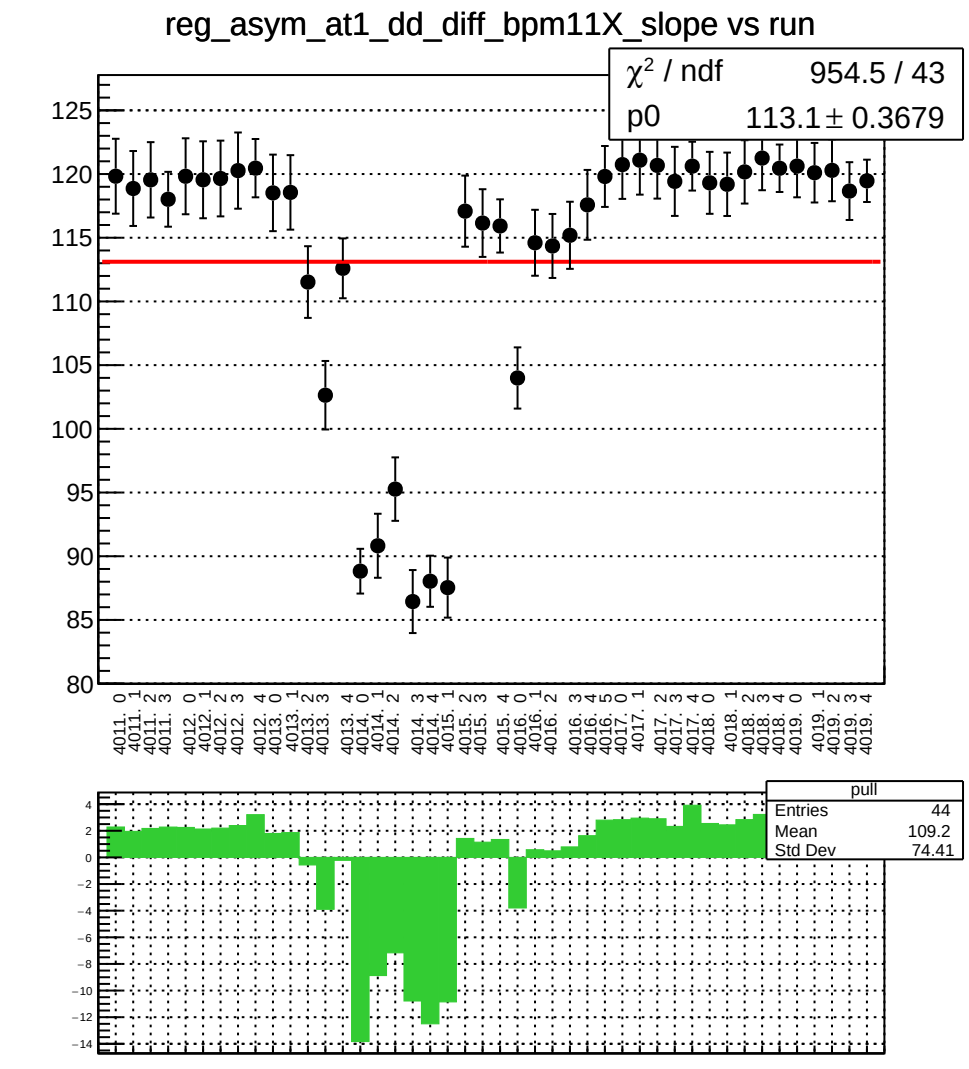

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 42.25 / 43
p0 −18.33 ± 1.501
pull
Entries 44
Mean 179.2
Std Dev 60

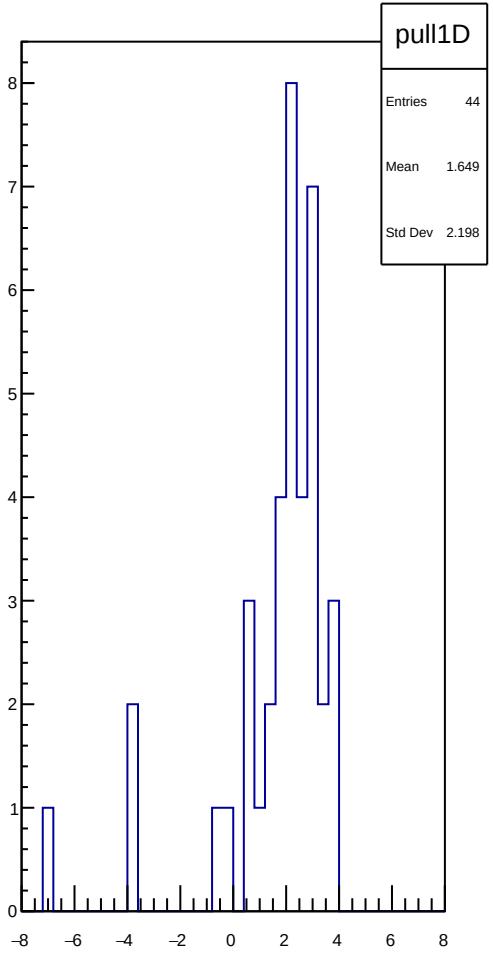

pull1D
Entries 44
Mean 0.002546
Std Dev 0.9799

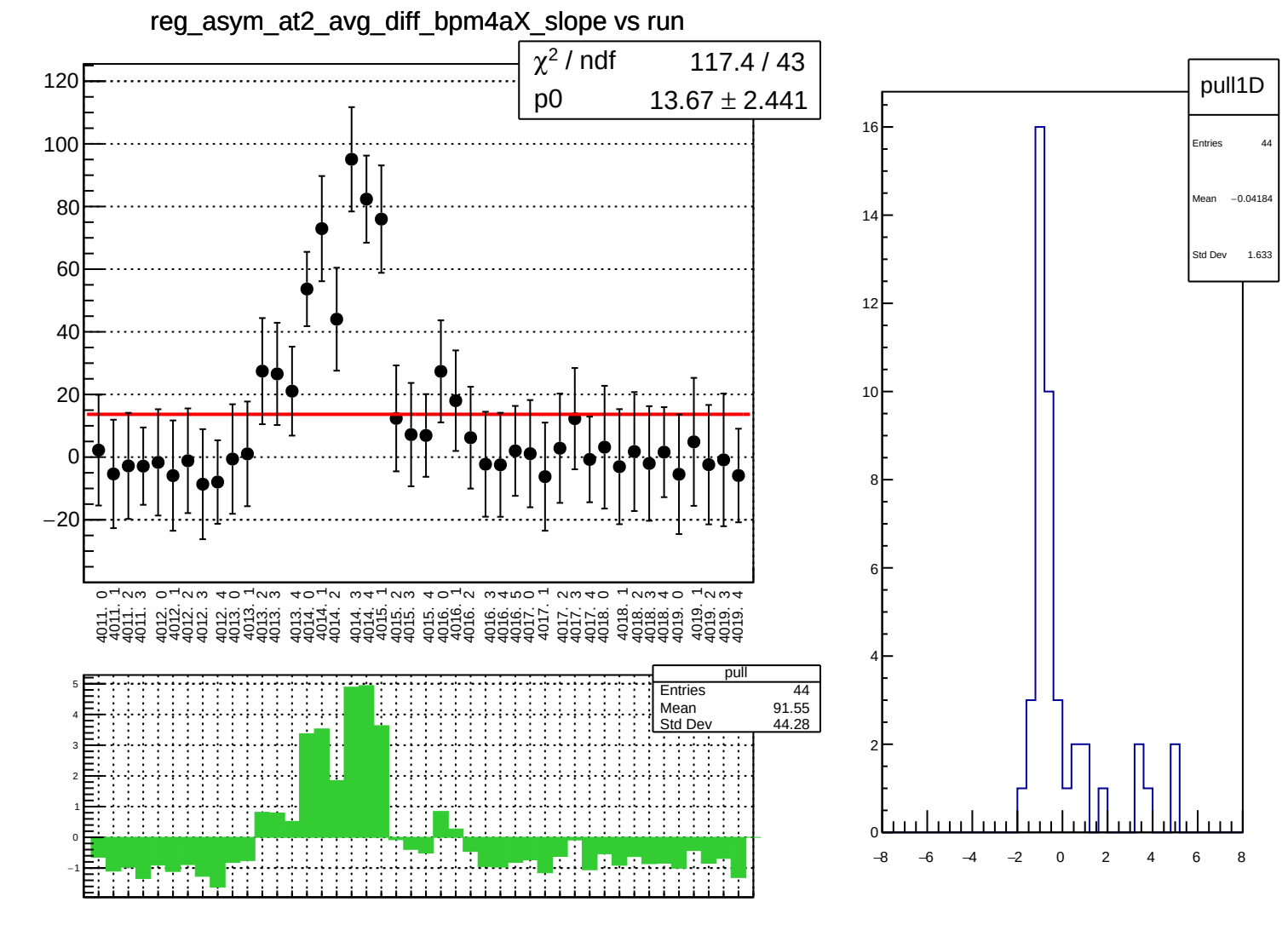

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.8 / 43
p0 −0.8603 ± 1.082
pull
Entries 44
Mean 5572
Std Dev 5550
pull1D
Entries 44
Mean −0.0003755
Std Dev 0.4955

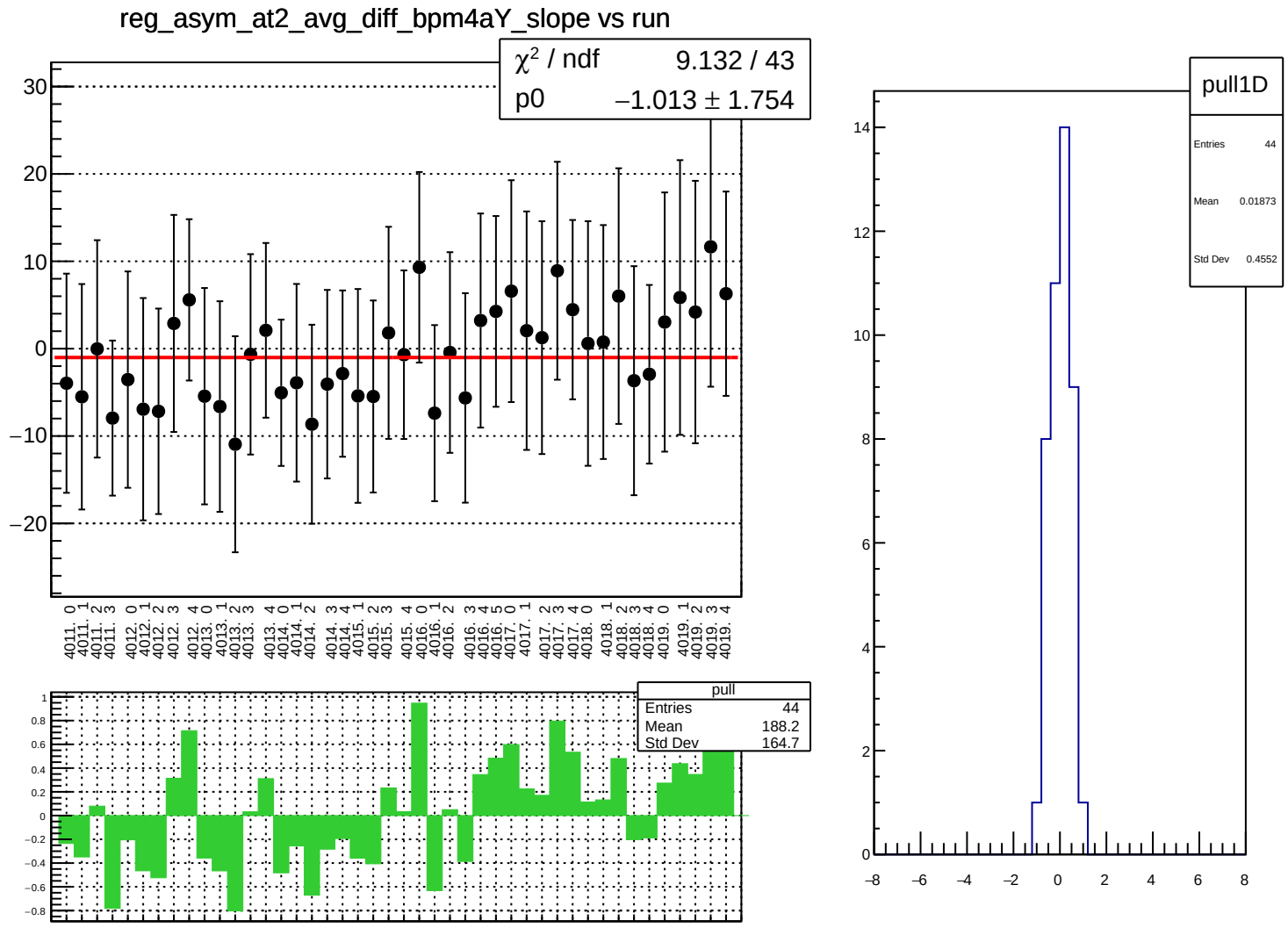

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 157.8 / 43
p0 142 ± 0.2452
148
146
144
142
140
138
136
134
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4016. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 59.24
Std Dev 41.07
2
1
0
−1
−2
−3
−4
pull1D
Entries 44
Mean 0.05835
Std Dev 1.893
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

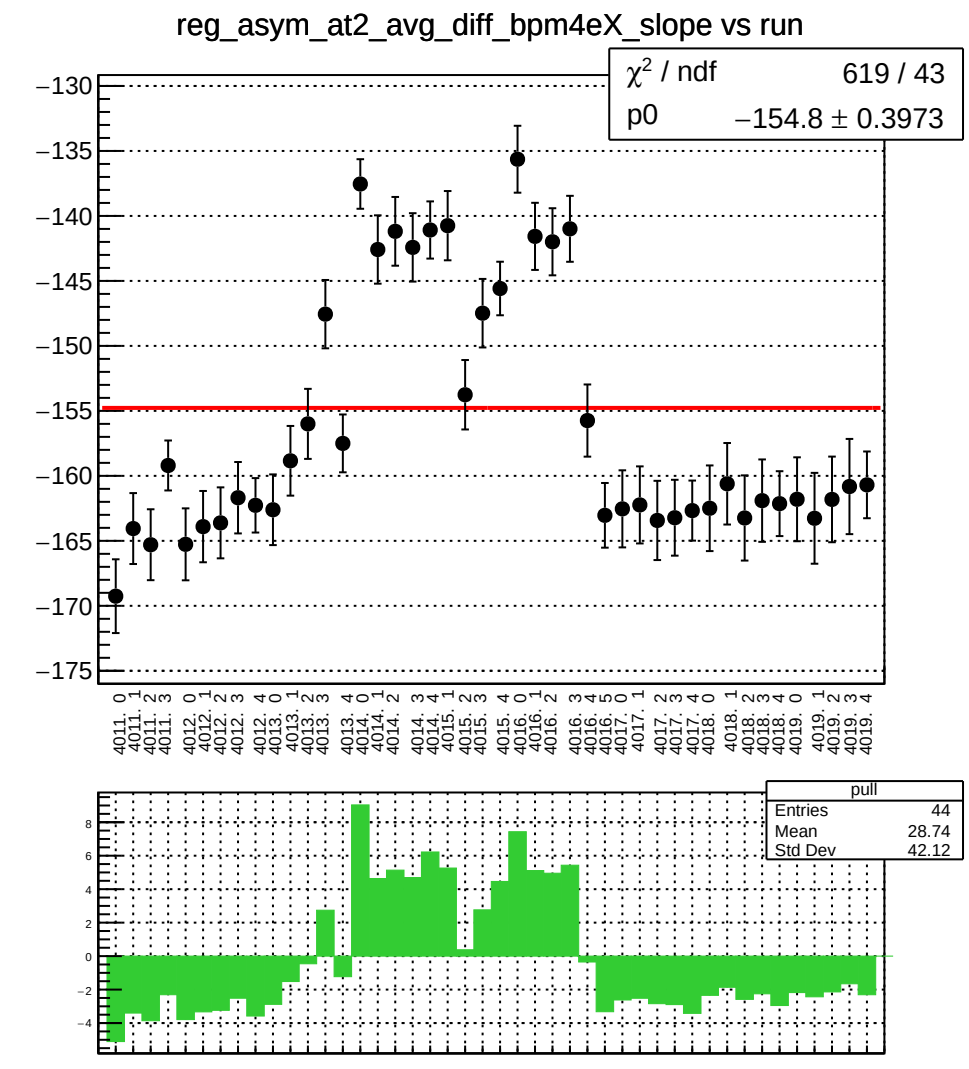

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.95 / 43
p0 −28.23 ± 1.87
0
−10
−20
−30
−40
−50
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −466.3
Std Dev 486.4
1.5
1
0.5
0
−0.5
pull1D
Entries 44
Mean −0.004203
Std Dev 0.4988
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

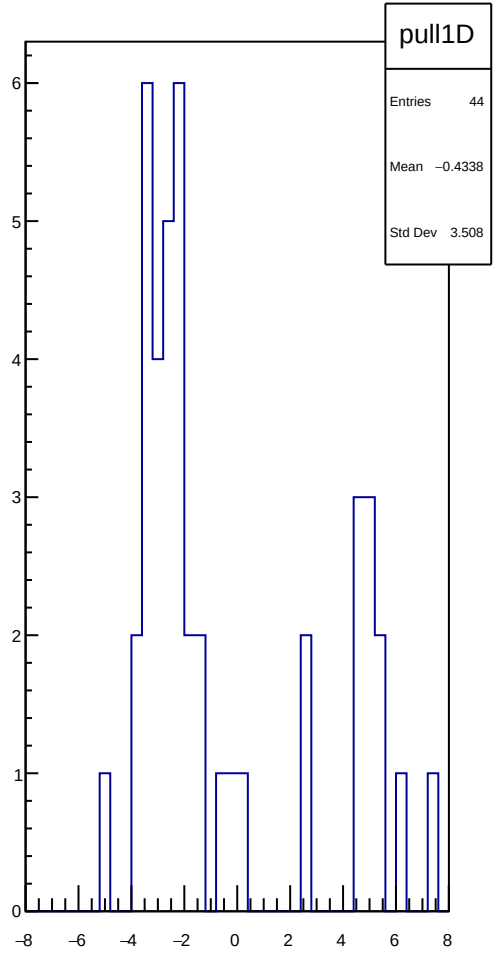

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 954.5 / 43
p0 113.1 ± 0.3679
pull
Entries 44
Mean 109.2
Std Dev 74.41

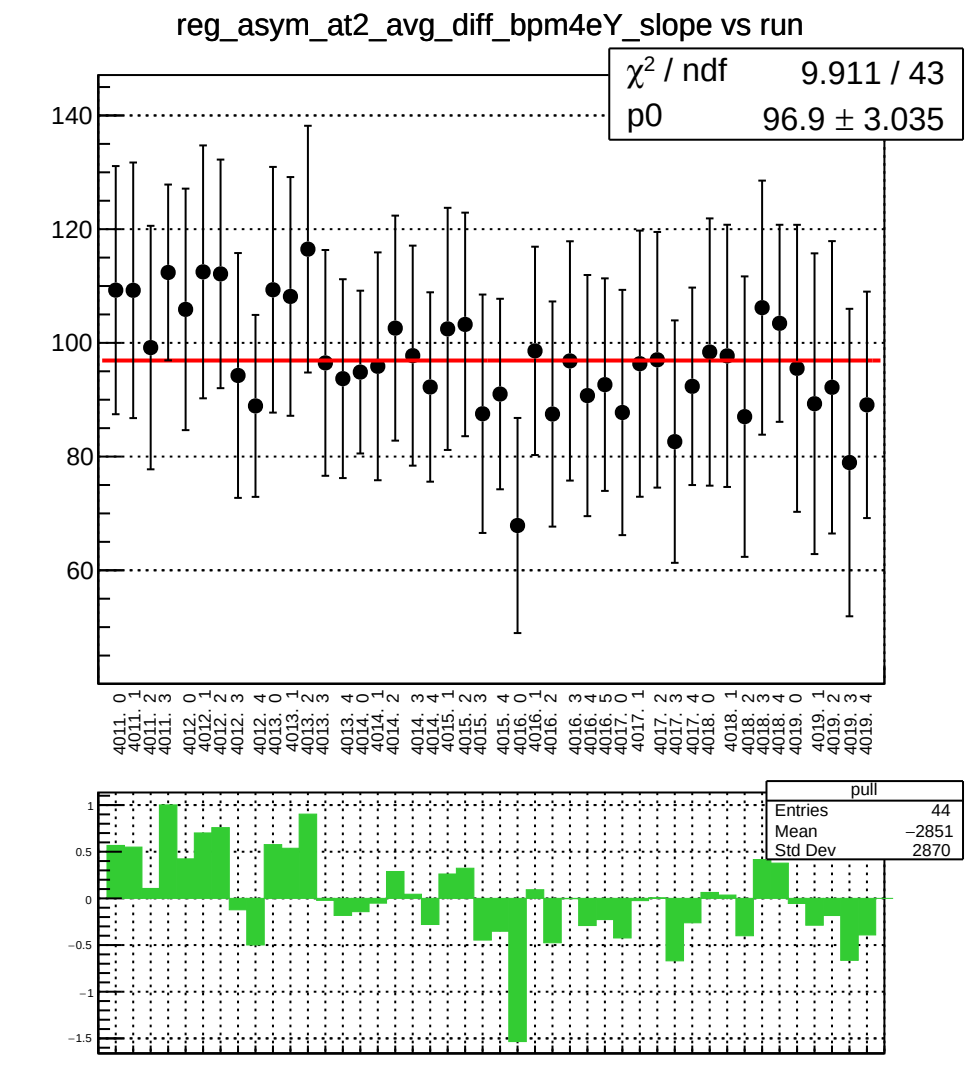

pull1D
Entries 44
Mean 1.649
Std Dev 2.198

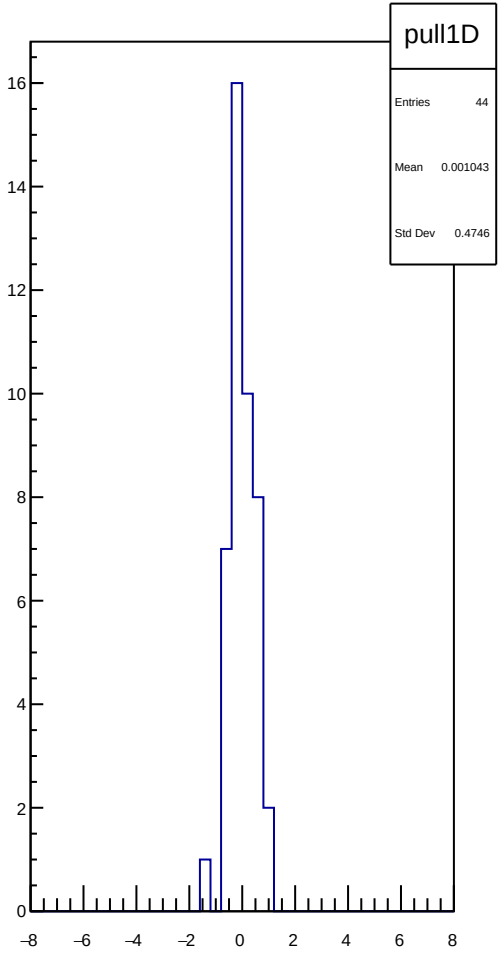

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 117.4 / 43
p0 13.67 ± 2.441
pull
Entries 44
Mean 91.55
Std Dev 44.28
pull1D
Entries 44
Mean −0.04184
Std Dev 1.633

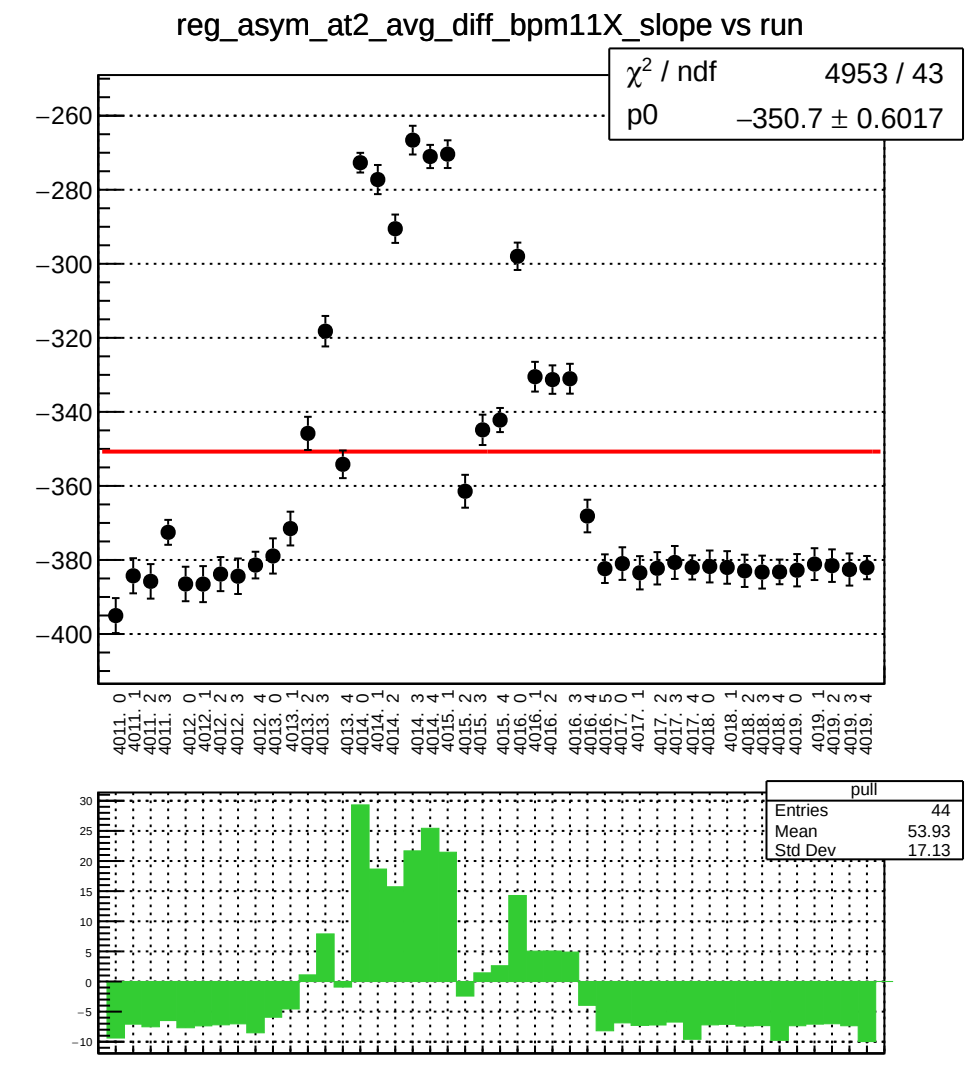

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.132 / 43
p0 −1.013 ± 1.754
30
20
10
0
−10
−20
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 188.2
Std Dev 164.7
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 44
Mean 0.01873
Std Dev 0.4552
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

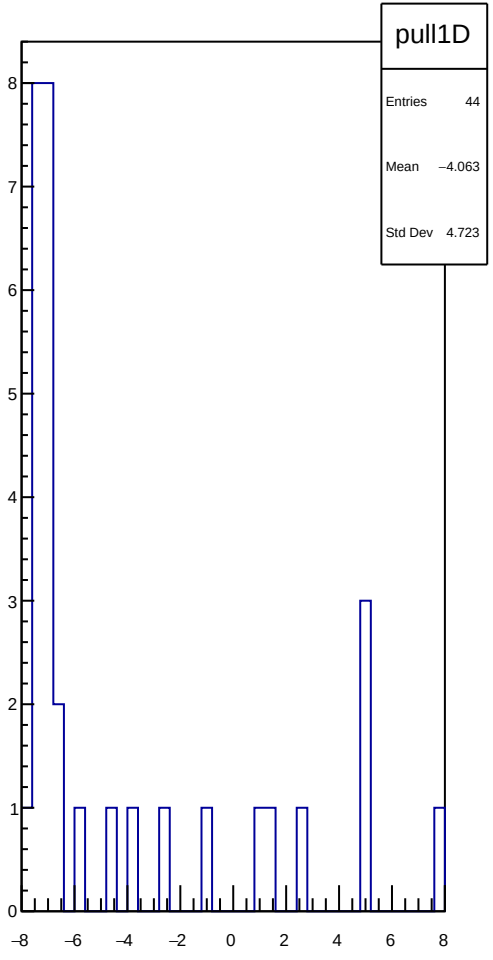

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 619 / 43
p0 −154.8 ± 0.3973
pull
Entries 44
Mean 28.74
Std Dev 42.12

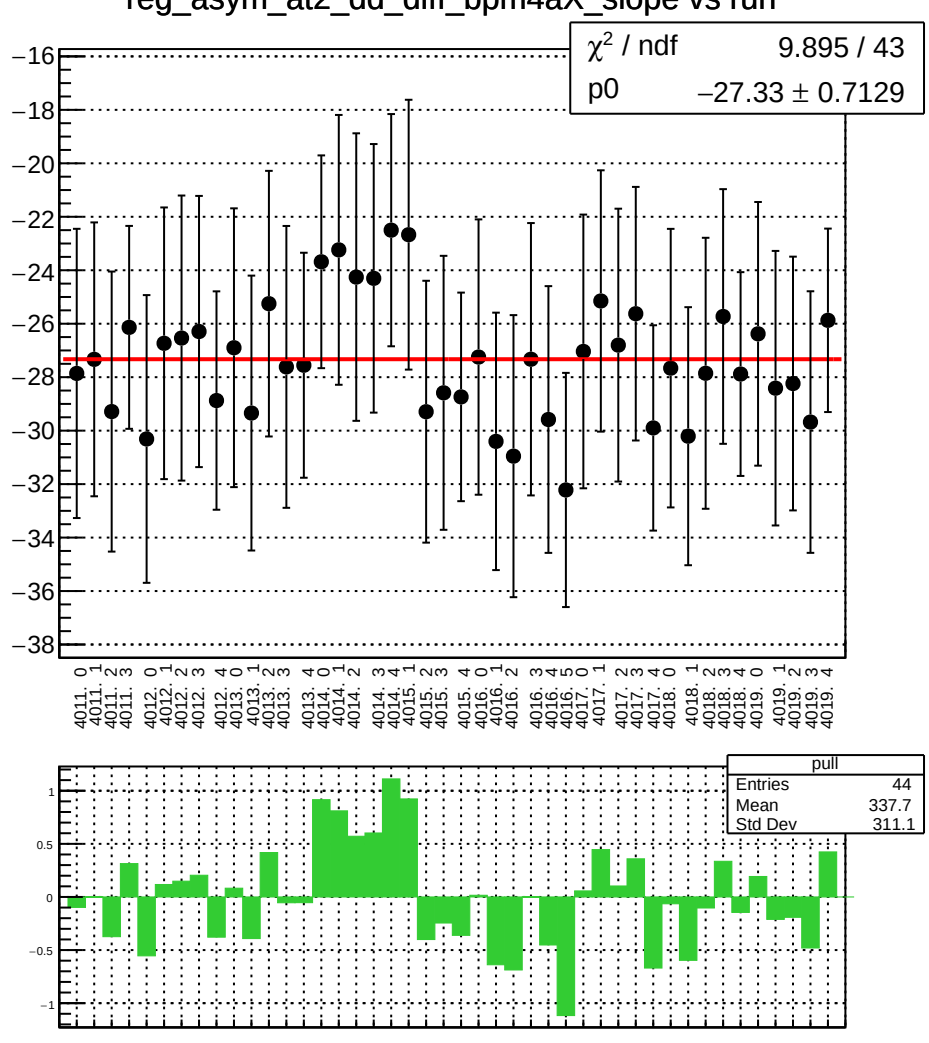

pull1D
Entries 44
Mean −0.4338
Std Dev 3.508

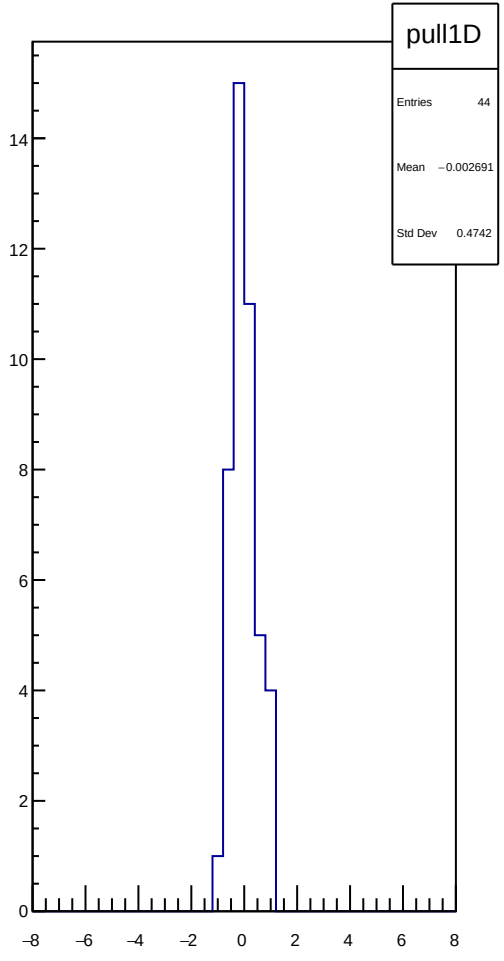

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.911 / 43
p0 96.9 ± 3.035
140
120
100
80
60
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −2851
Std Dev 2870
1
0.5
0
−0.5
−1
−1.5

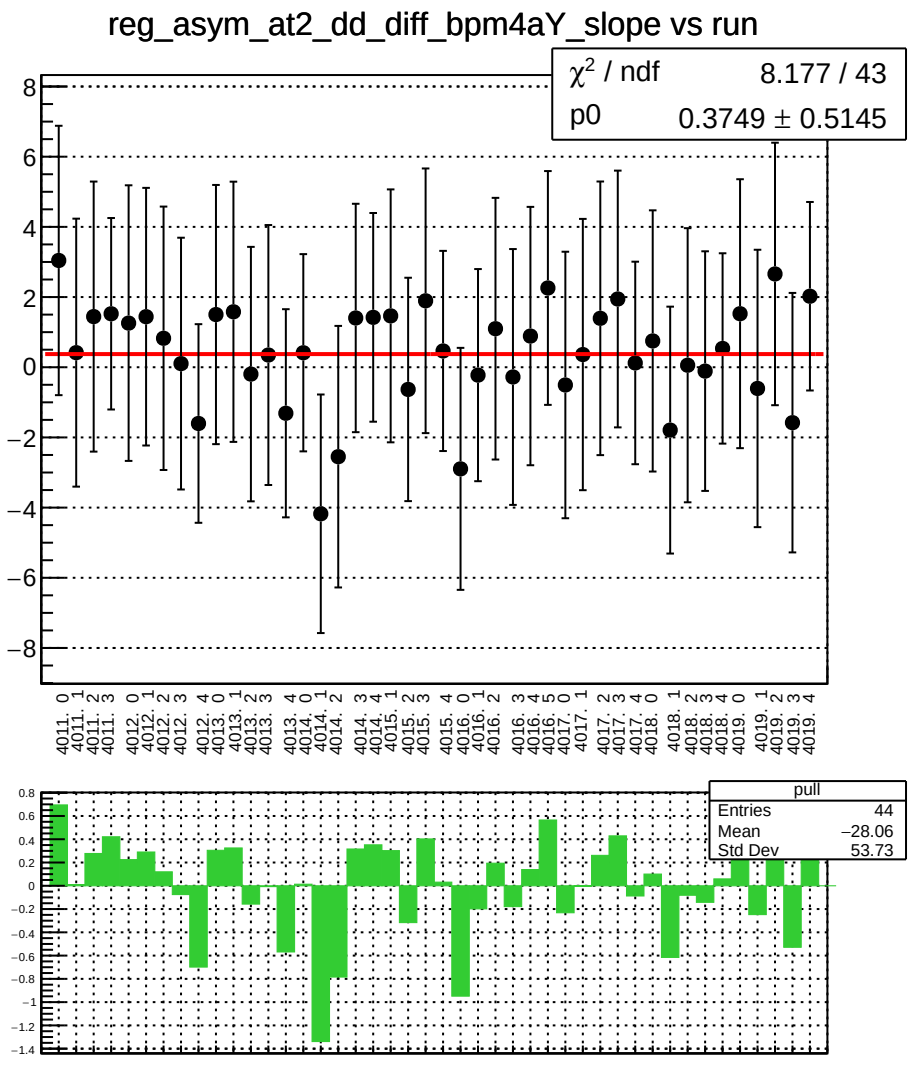

pull1D
Entries 44
Mean 0.001043
Std Dev 0.4746
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

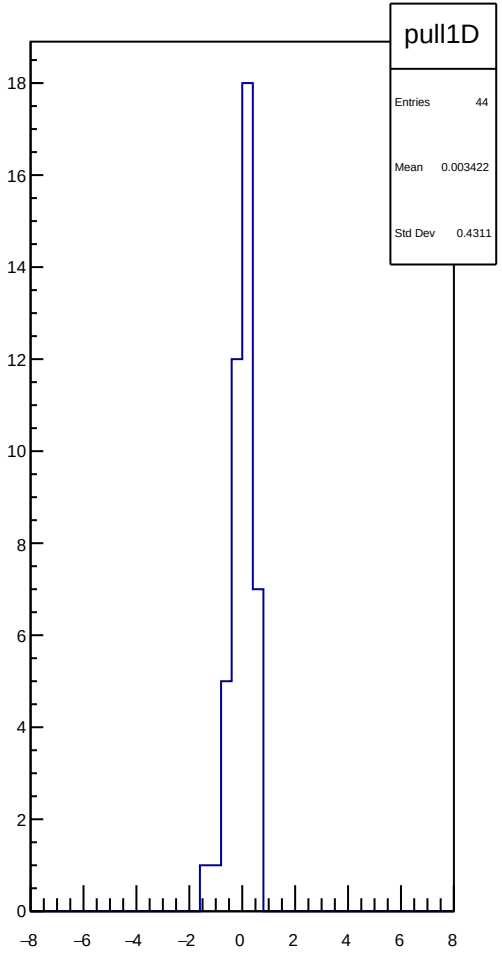

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 4953 / 43
p0 −350.7 ± 0.6017
pull
Entries 44
Mean 53.93
Std Dev 17.13

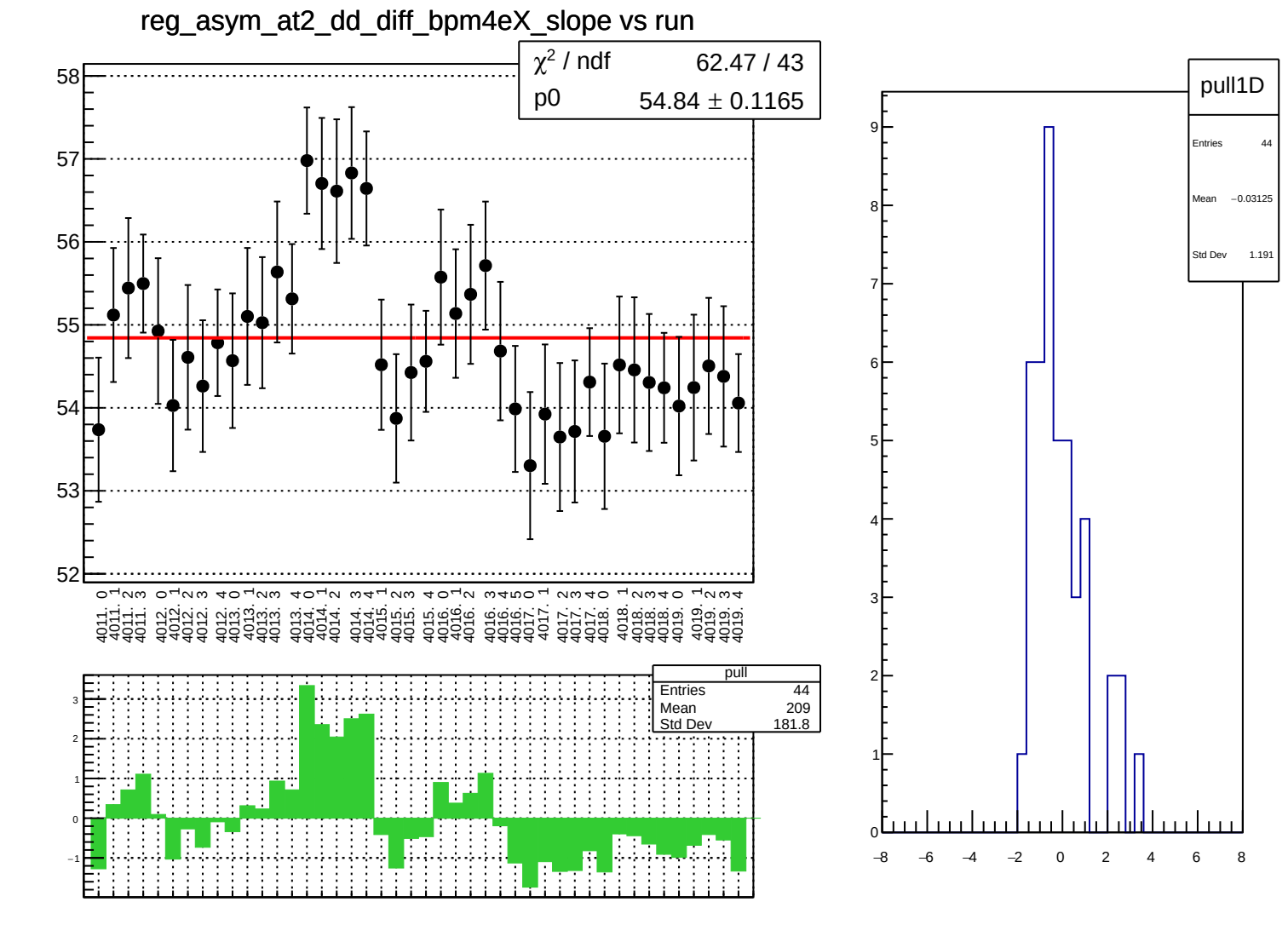

pull1D
Entries 44
Mean −4.063
Std Dev 4.723

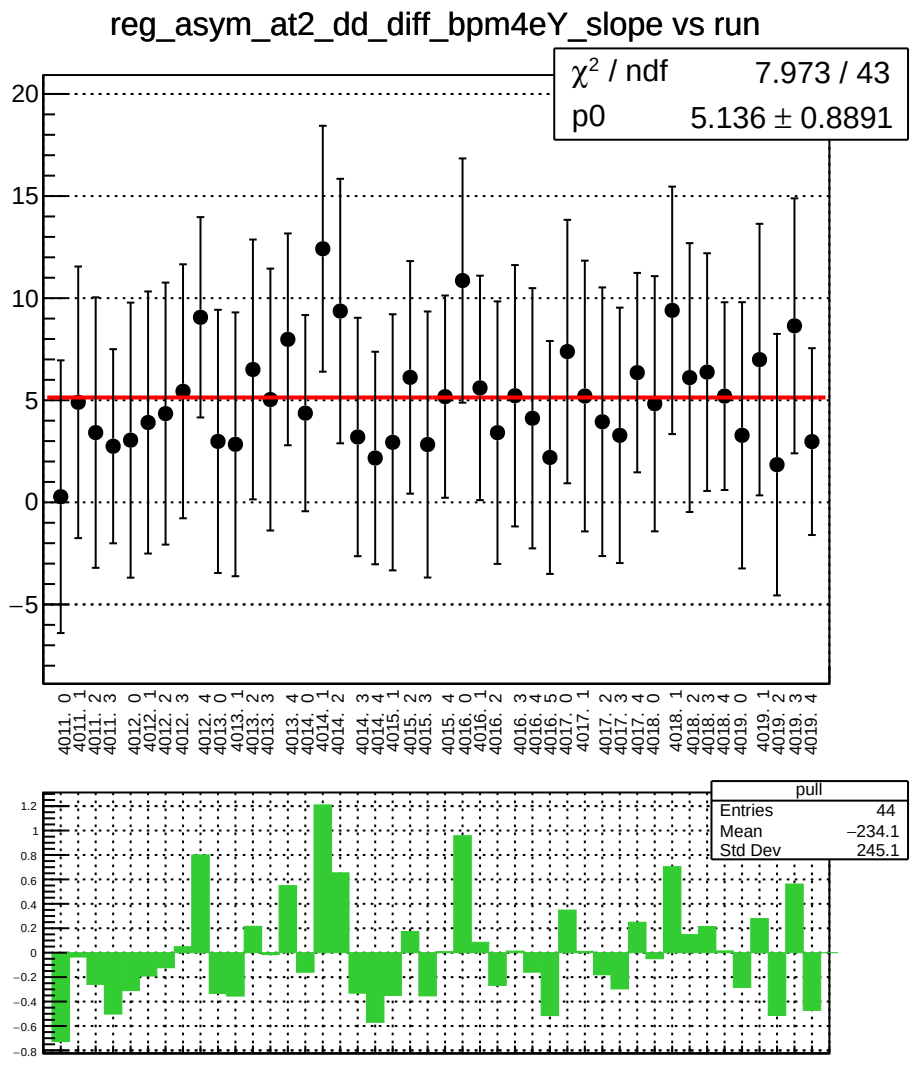

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.895 / 43
p0 −27.33 ± 0.7129
pull
Entries 44
Mean 337.7
Std Dev 311.1

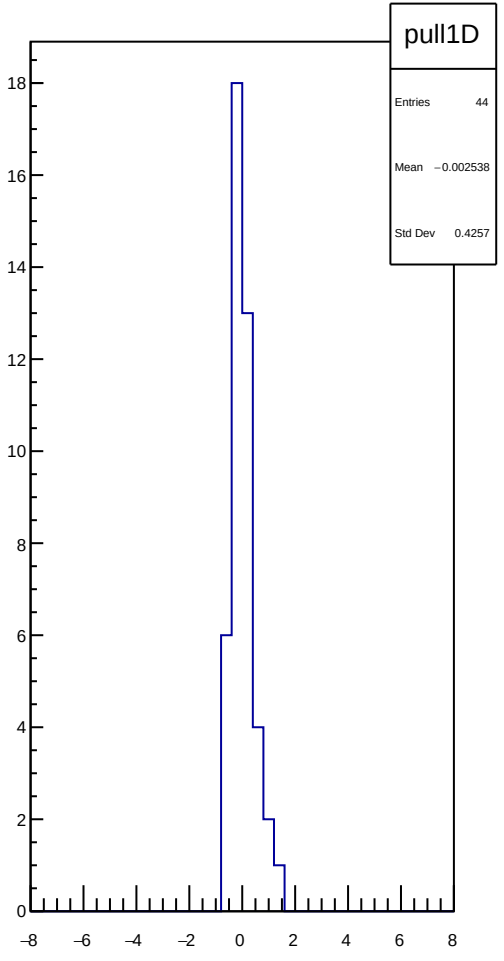

pull1D
Entries 44
Mean −0.002691
Std Dev 0.4742

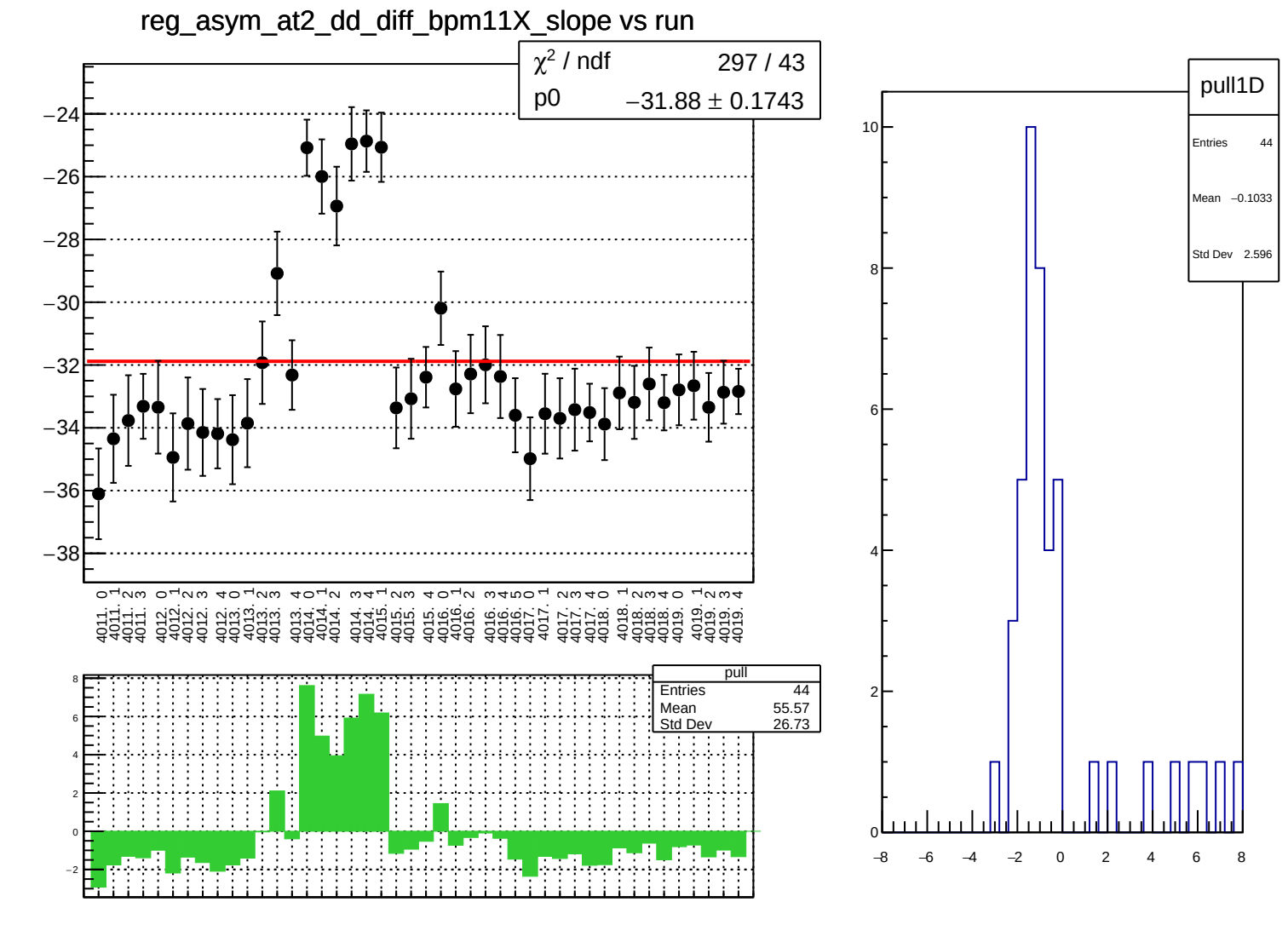

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.177 / 43
p0 0.3749 ± 0.5145
pull
Entries 44
Mean −28.06
Std Dev 53.73

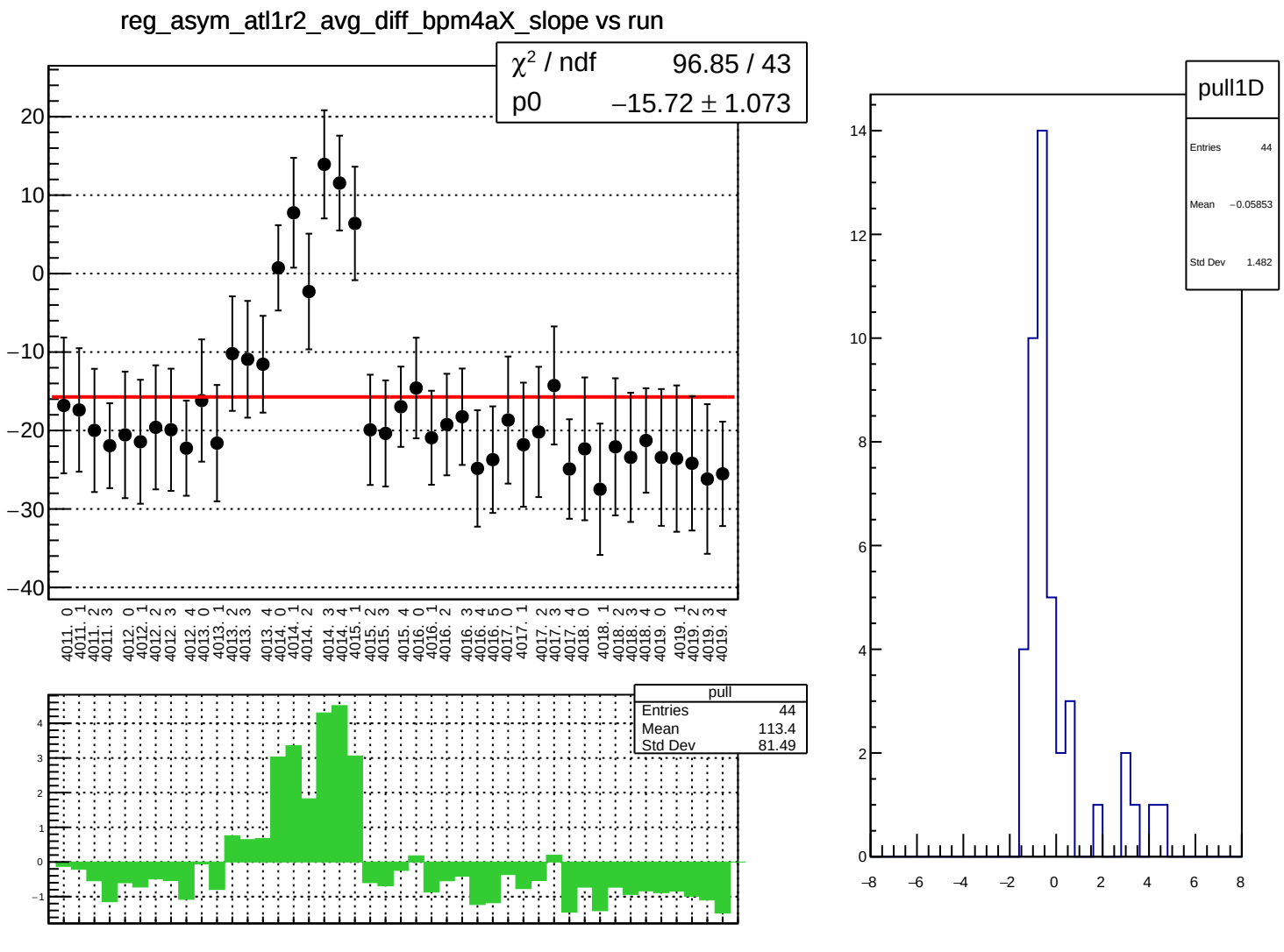

pull1D
Entries 44
Mean 0.003422
Std Dev 0.4311

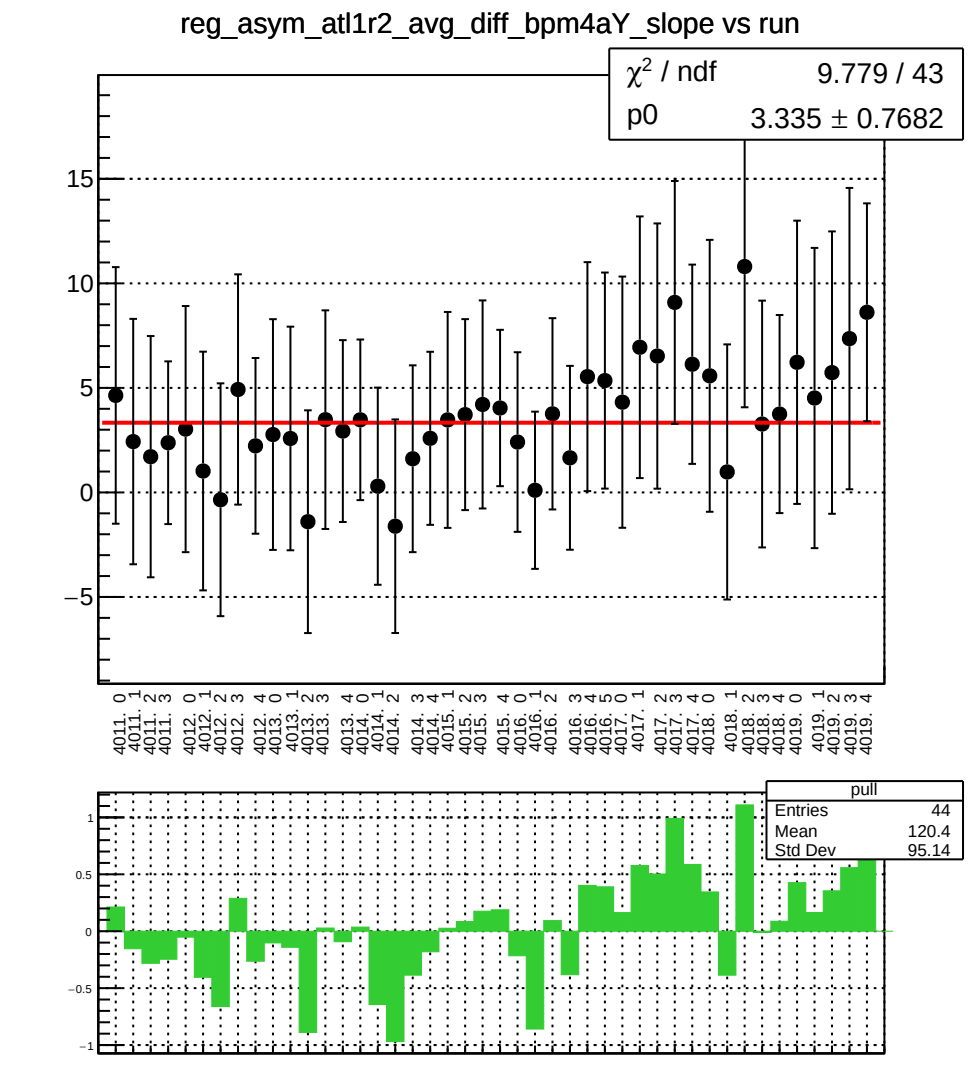

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.47 / 43
p0 54.84 ± 0.1165
pull
Entries 44
Mean 209
Std Dev 181.8
pull1D
Entries 44
Mean −0.03125
Std Dev 1.191

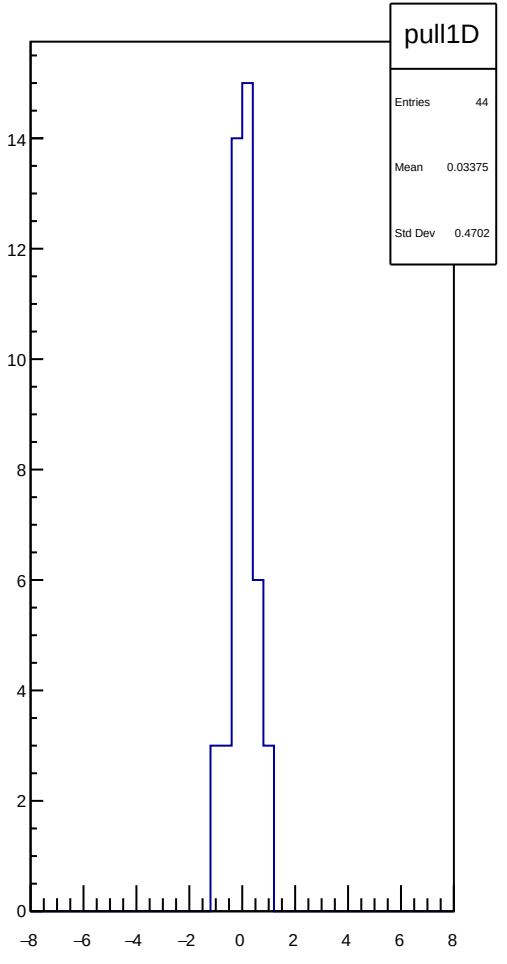

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.973 / 43
p0 5.136 ± 0.8891
pull
Entries 44
Mean −234.1
Std Dev 245.1

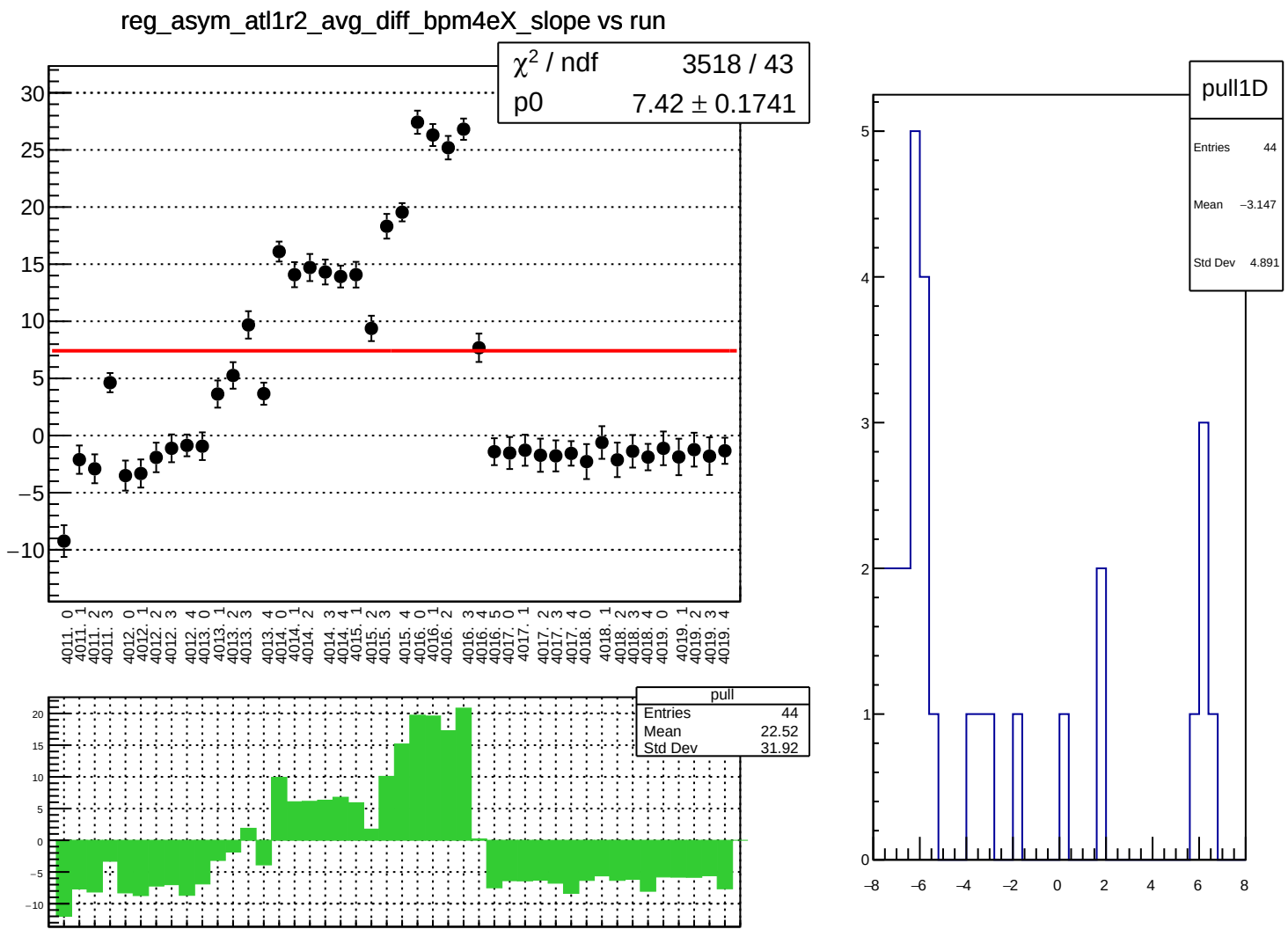

pull1D
Entries 44
Mean −0.002538
Std Dev 0.4257

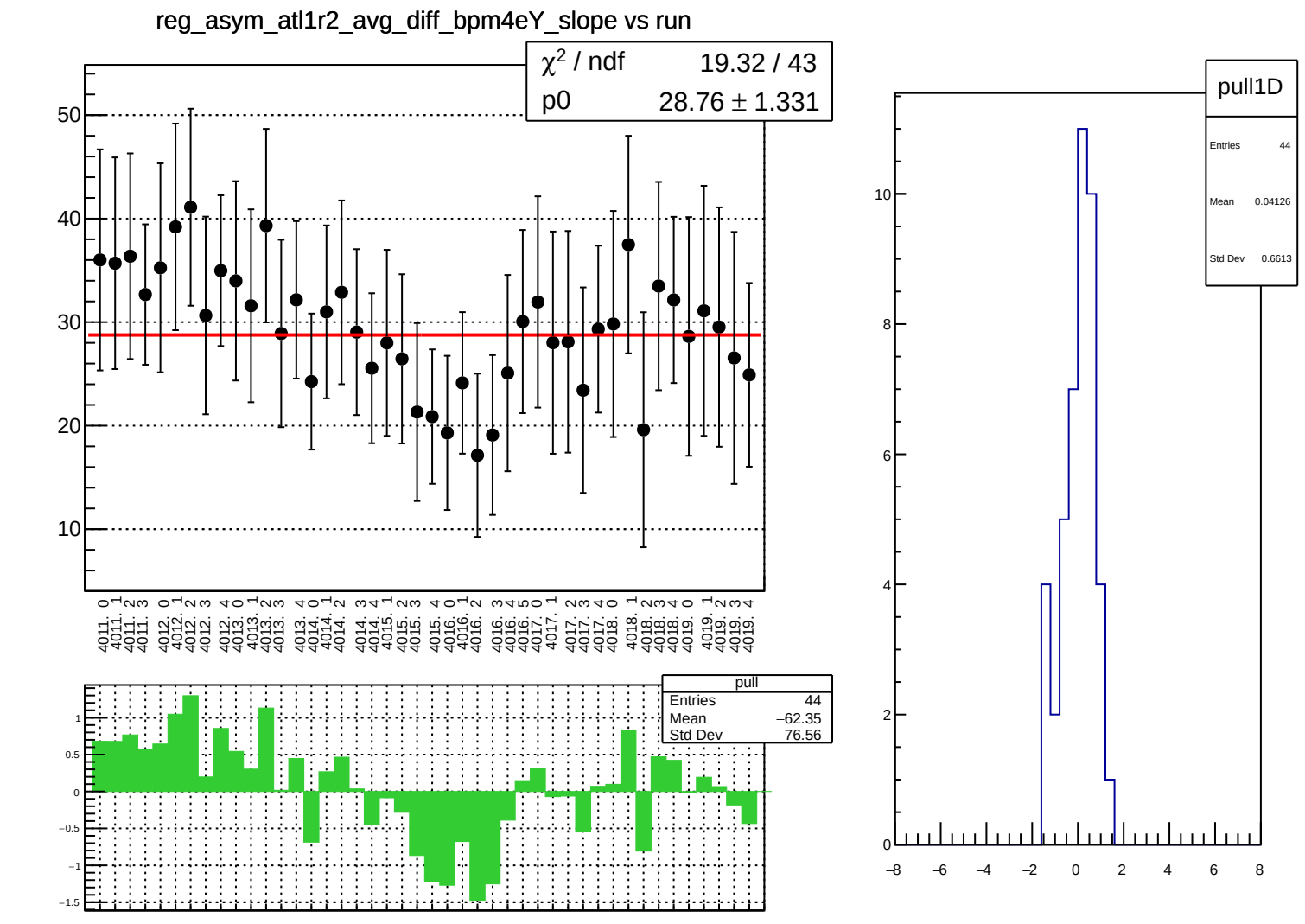

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 297 / 43
p0 −31.88 ± 0.1743
pull
Entries 44
Mean 55.57
Std Dev 26.73
pull1D
Entries 44
Mean −0.1033
Std Dev 2.596

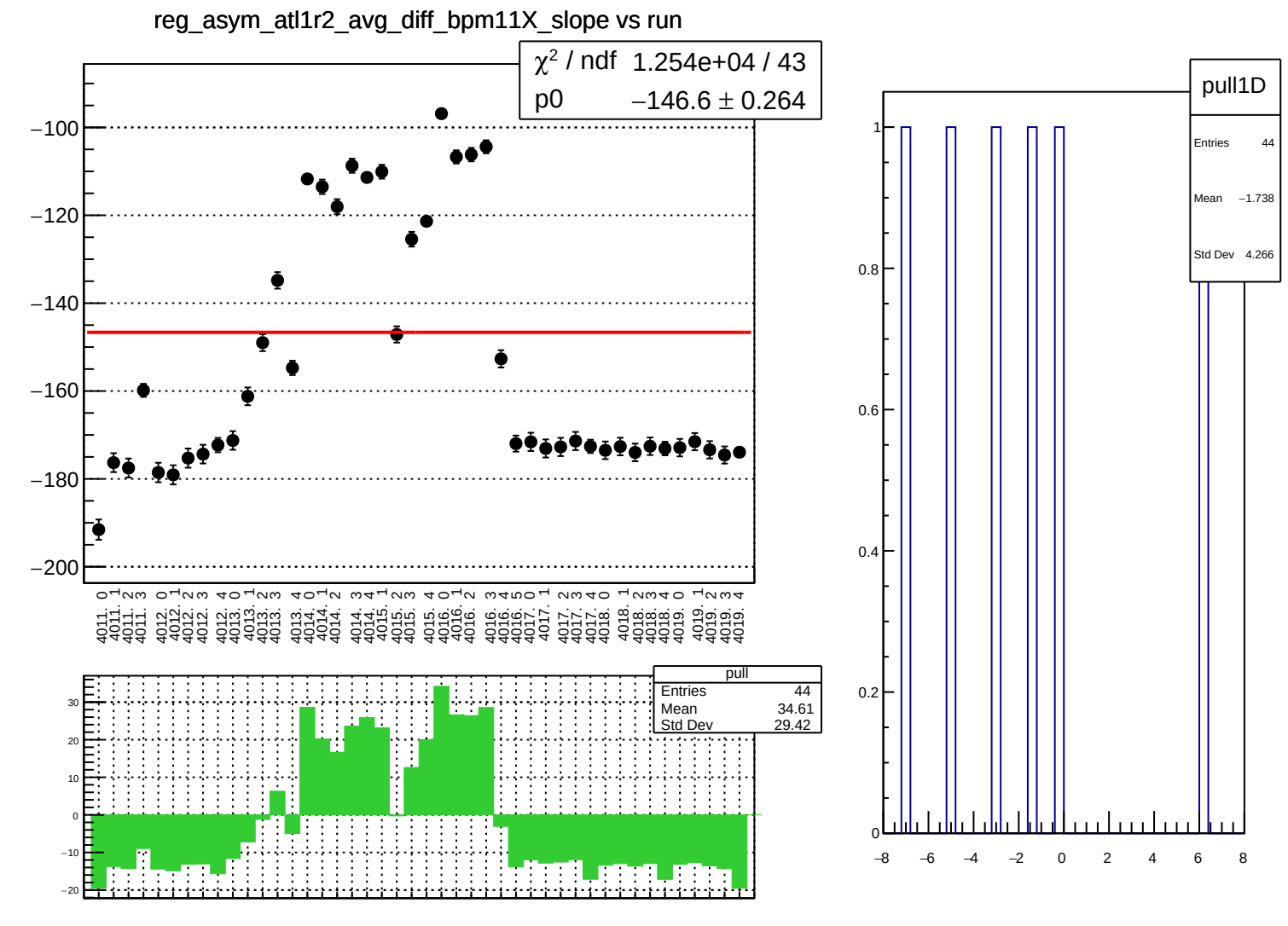

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 96.85 / 43
p0 −15.72 ± 1.073
pull
Entries 44
Mean 113.4
Std Dev 81.49
pull1D
Entries 44
Mean −0.05853
Std Dev 1.482

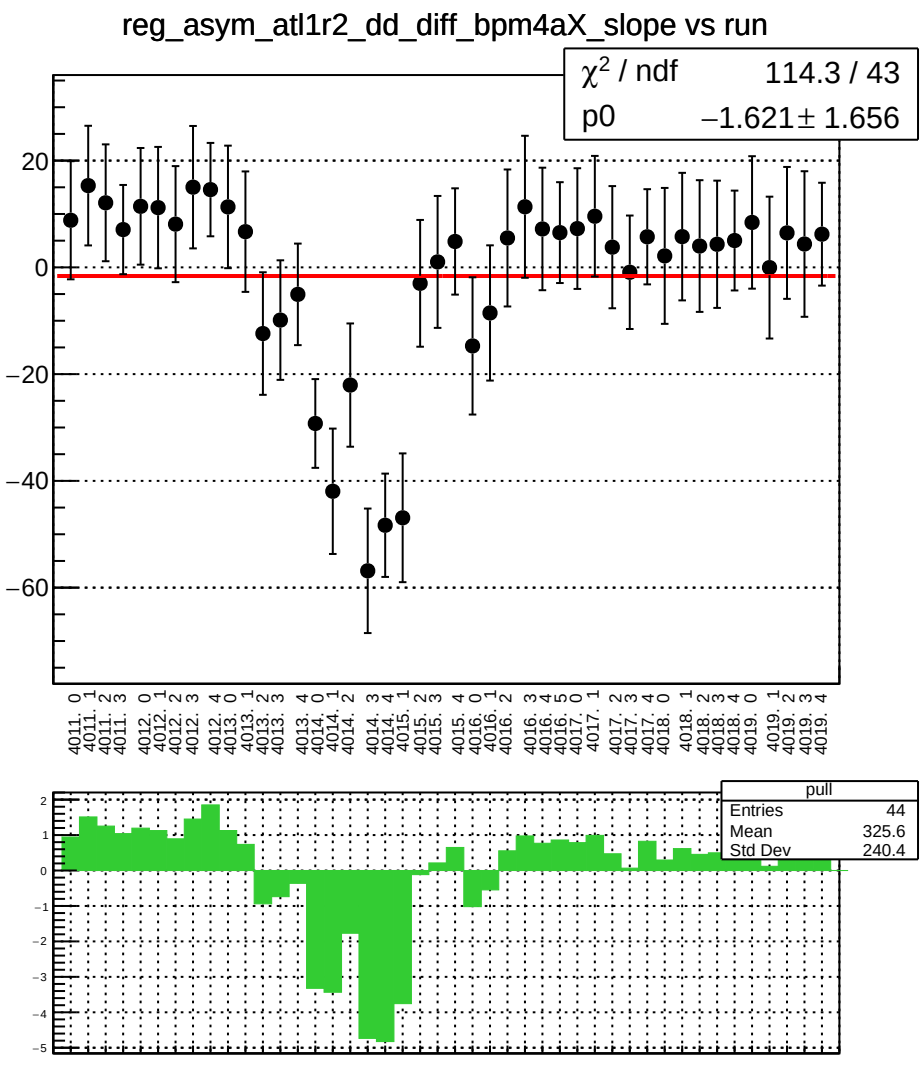

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.779 / 43
p0 3.335 ± 0.7682
15
10
5
0
−5
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 120.4
Std Dev 95.14
1
0.5
0
−0.5
−1

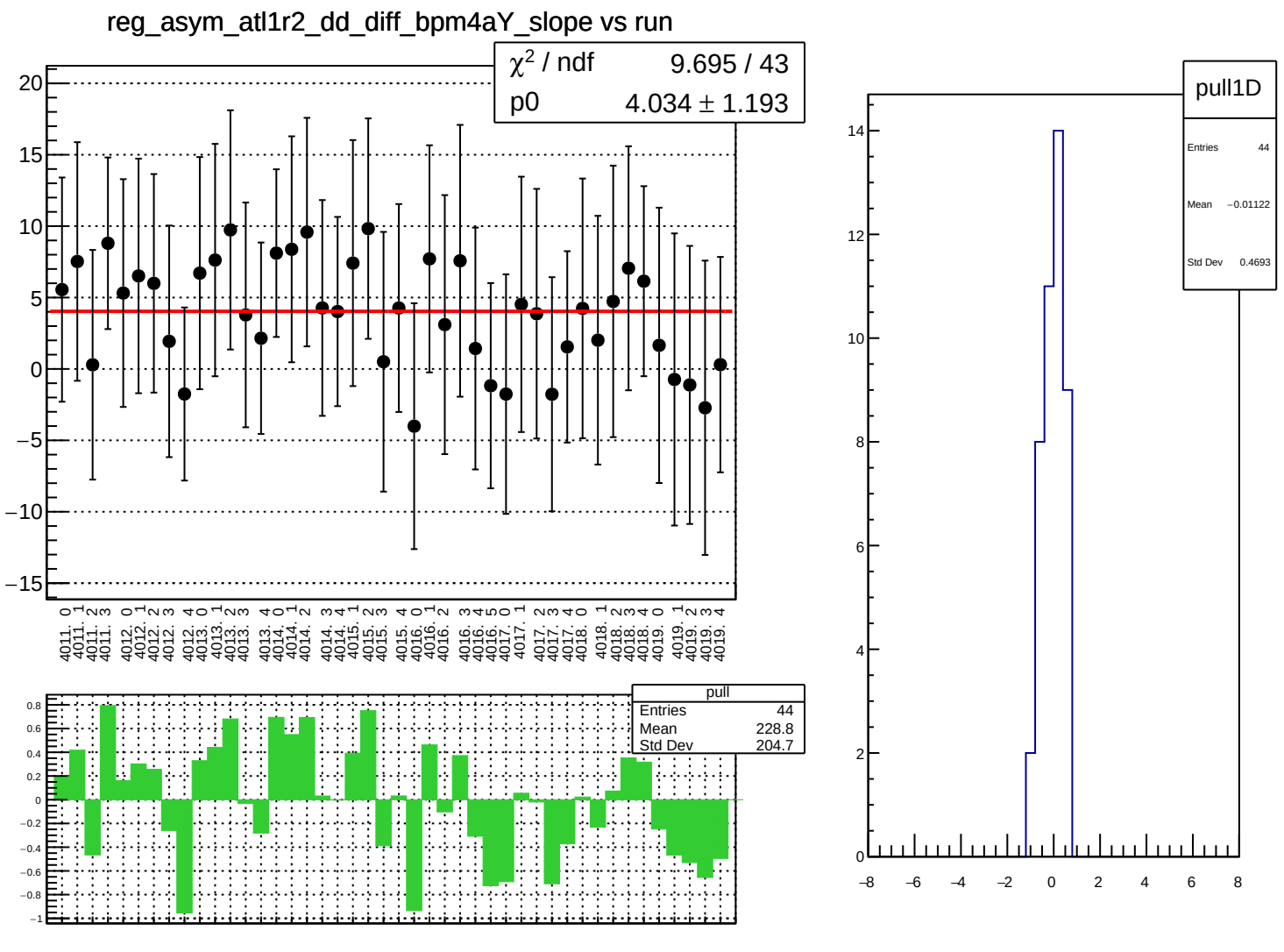

pull1D
Entries 44
Mean 0.03375
Std Dev 0.4702
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

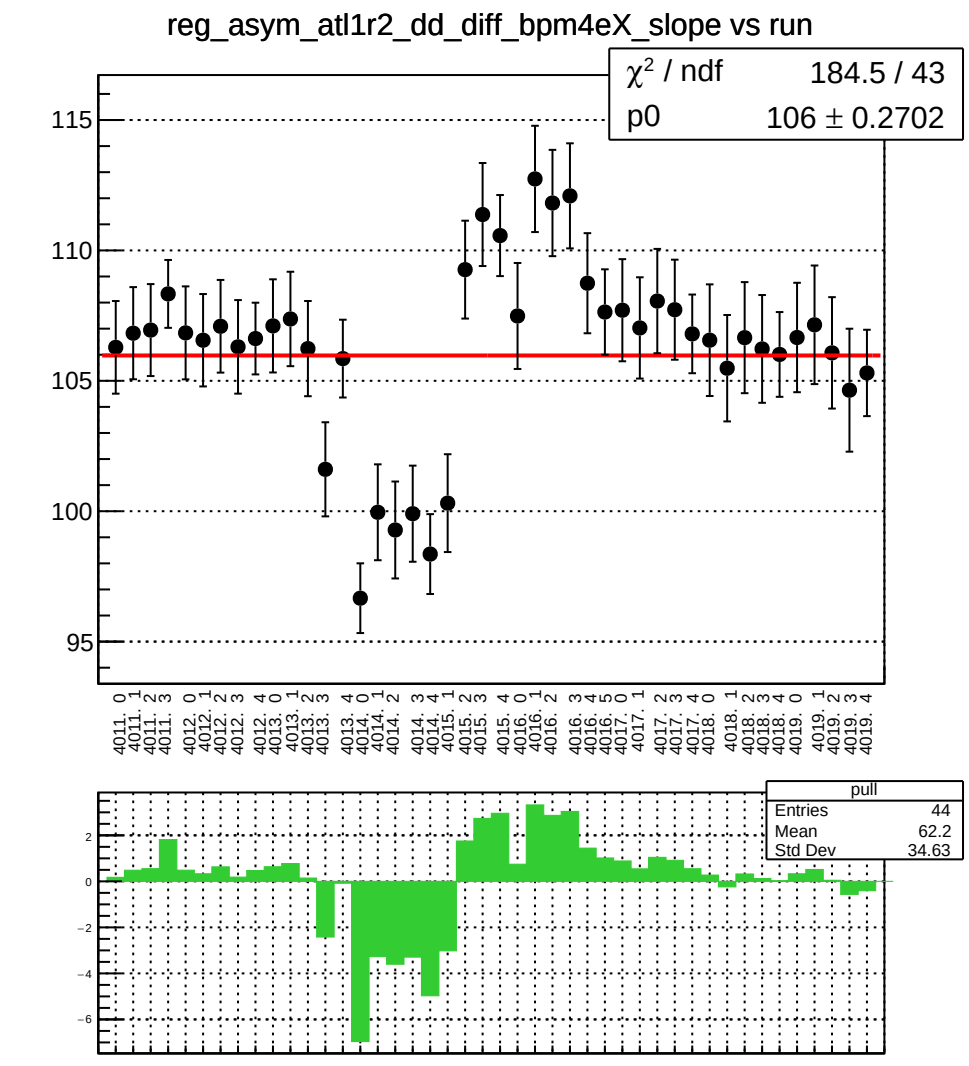

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3518 / 43
p0 7.42 ± 0.1741
pull
Entries 44
Mean 22.52
Std Dev 31.92
pull1D
Entries 44
Mean −3.147
Std Dev 4.891

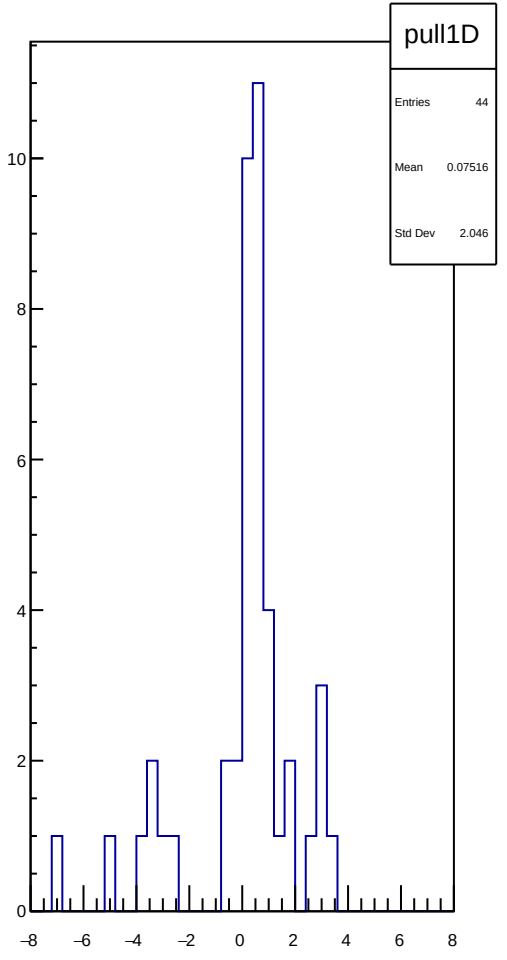

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.32 / 43
p0 28.76 ± 1.331
50
40
30
20
10
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −62.35
Std Dev 76.56
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean 0.04126
Std Dev 0.6613
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

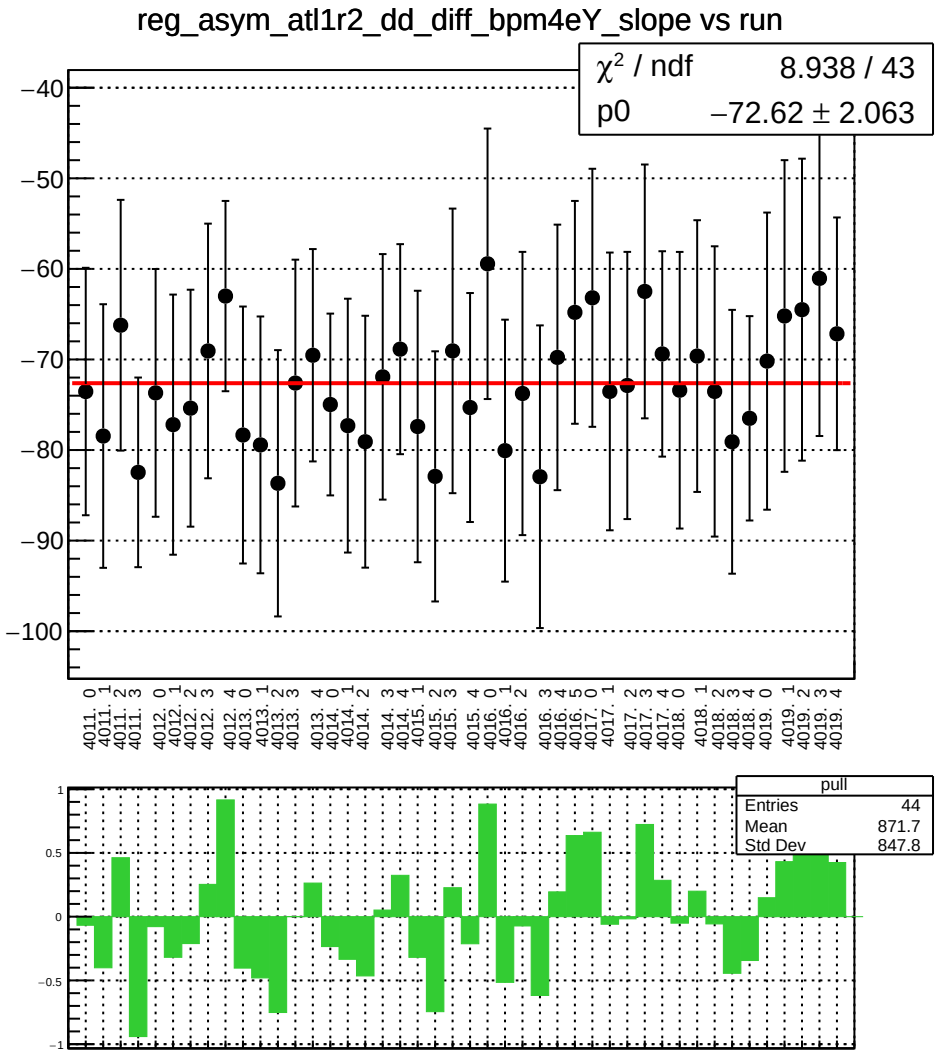

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 1.254e+04 / 43
p0 −146.6 ± 0.264
pull
Entries 44
Mean 34.61
Std Dev 29.42
pull1D
Entries 44
Mean −1.738
Std Dev 4.266

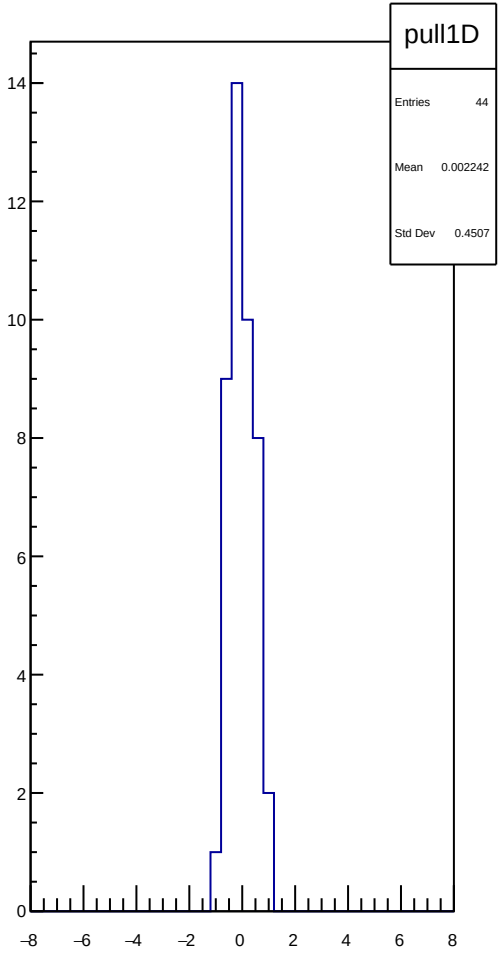

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 114.3 / 43
p0 −1.621 ± 1.656
20
0
−20
−40
−60
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 325.6
Std Dev 240.4
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 44
Mean 0.003287
Std Dev 1.612
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

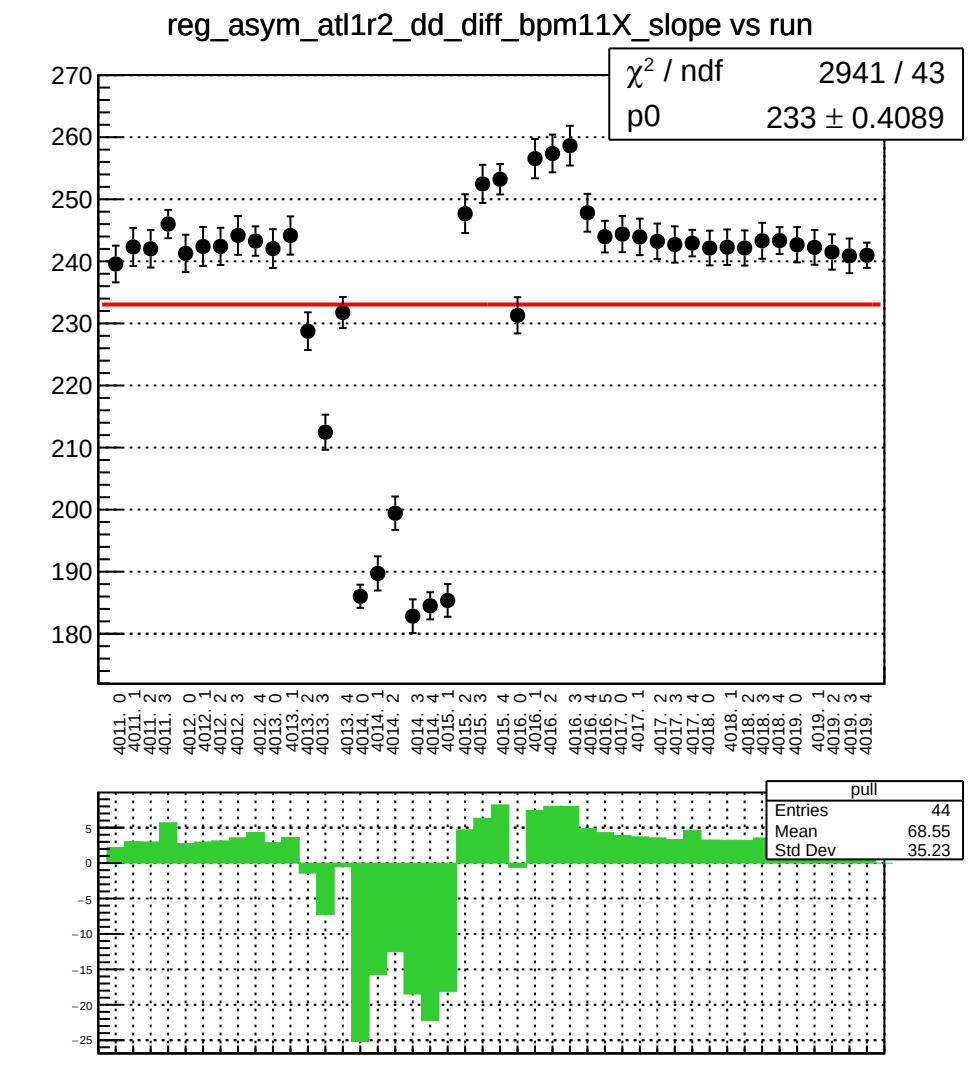

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.695 / 43
p0 4.034 ± 1.193
pull
Entries 44
Mean 228.8
Std Dev 204.7
pull1D
Entries 44
Mean −0.01122
Std Dev 0.4693

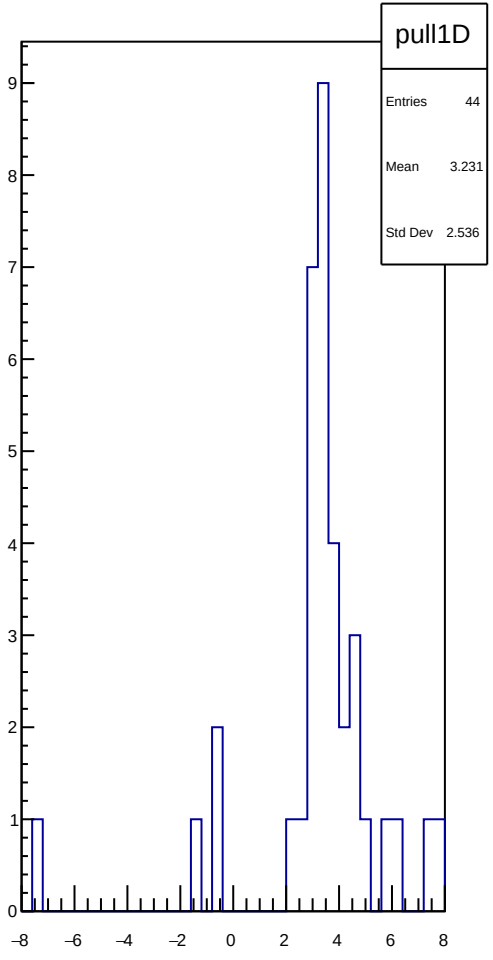

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 184.5 / 43
p0 106 ± 0.2702
115
110
105
100
95
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 62.2
Std Dev 34.63
2
0
−2
−4
−6

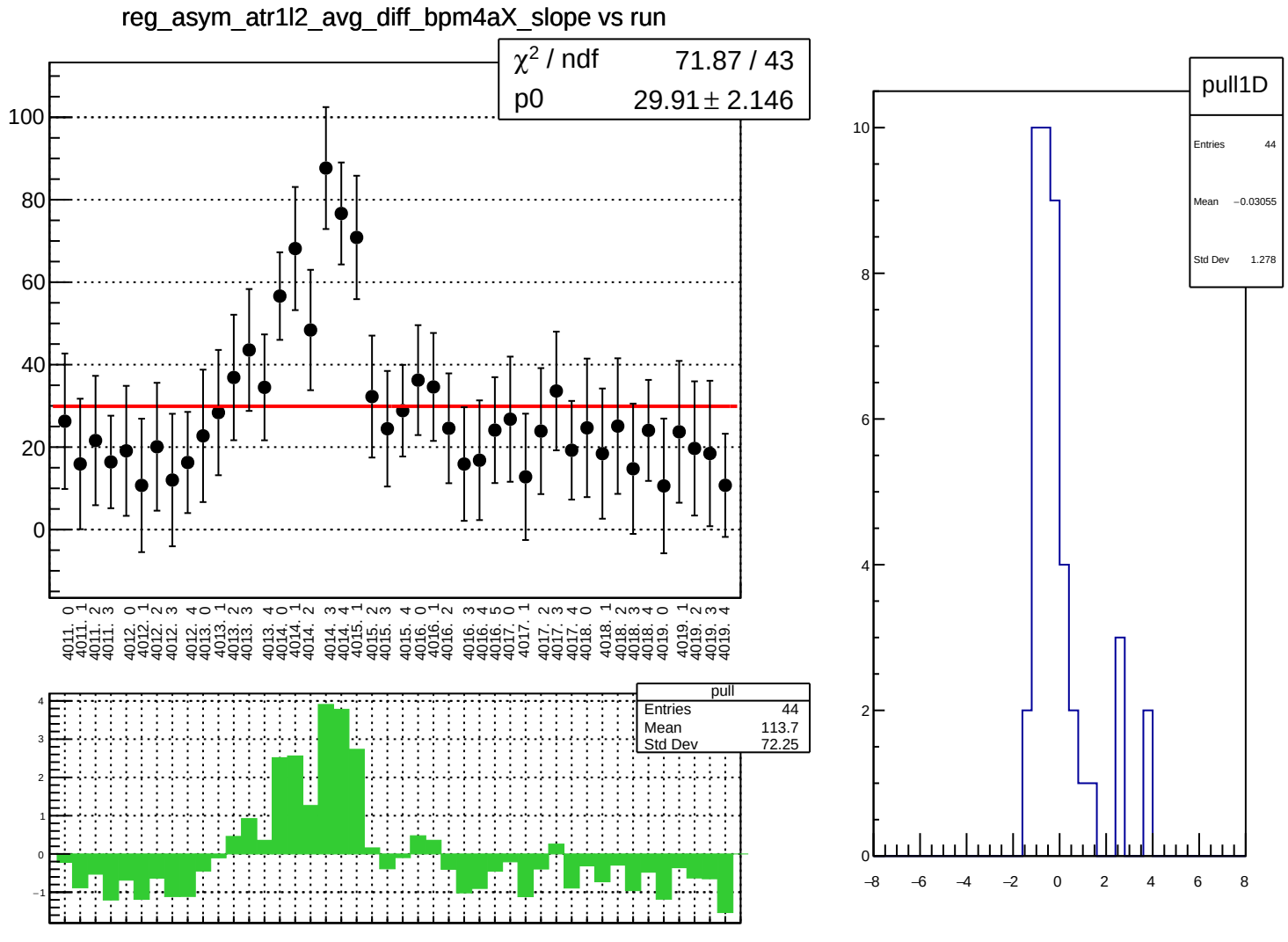

pull1D
Entries 44
Mean 0.07516
Std Dev 2.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

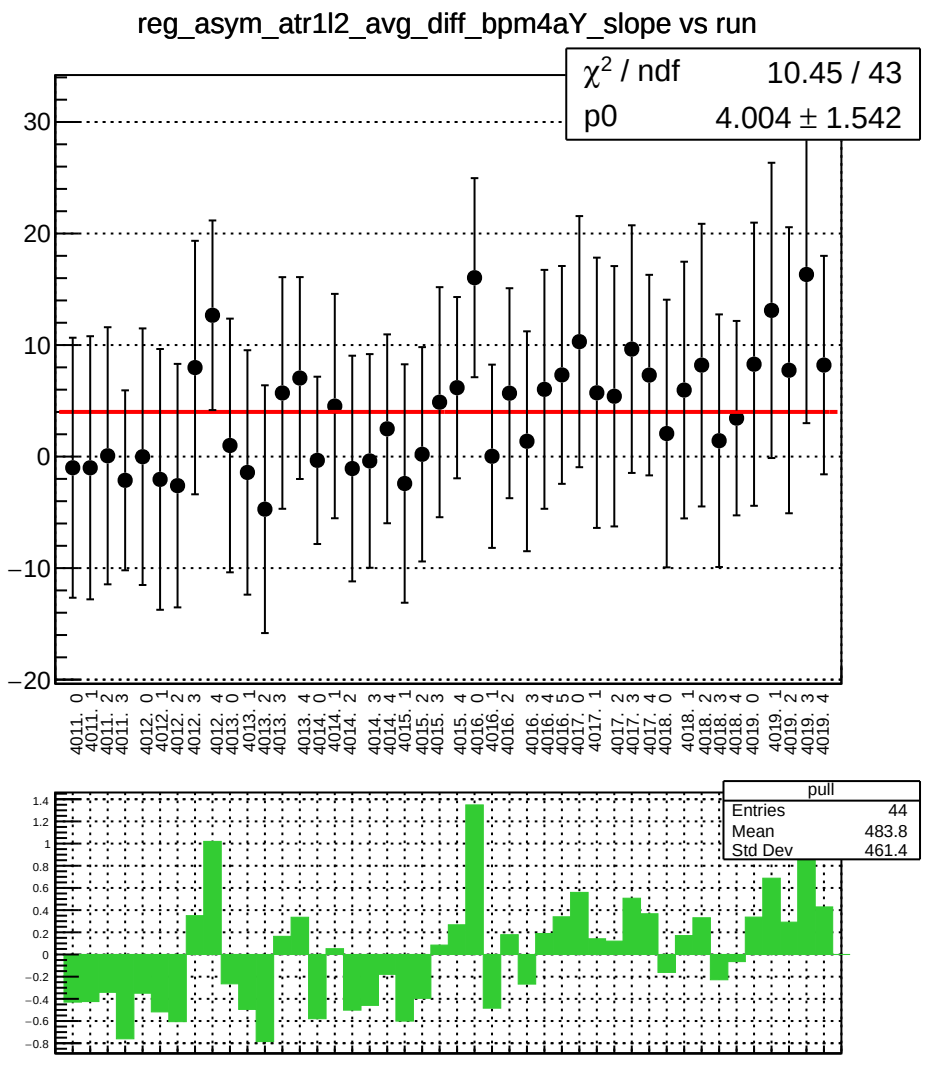

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.938 / 43
p0 −72.62 ± 2.063
pull
Entries 44
Mean 871.7
Std Dev 847.8

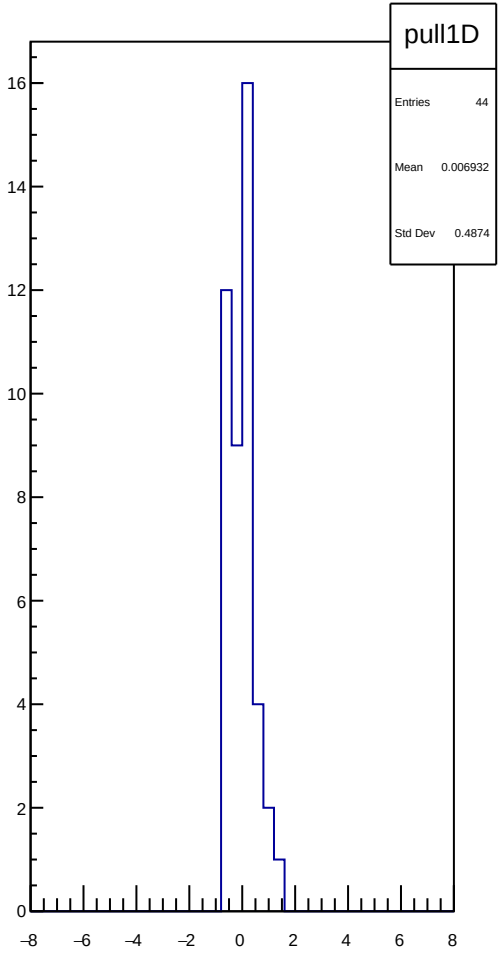

pull1D
Entries 44
Mean 0.002242
Std Dev 0.4507

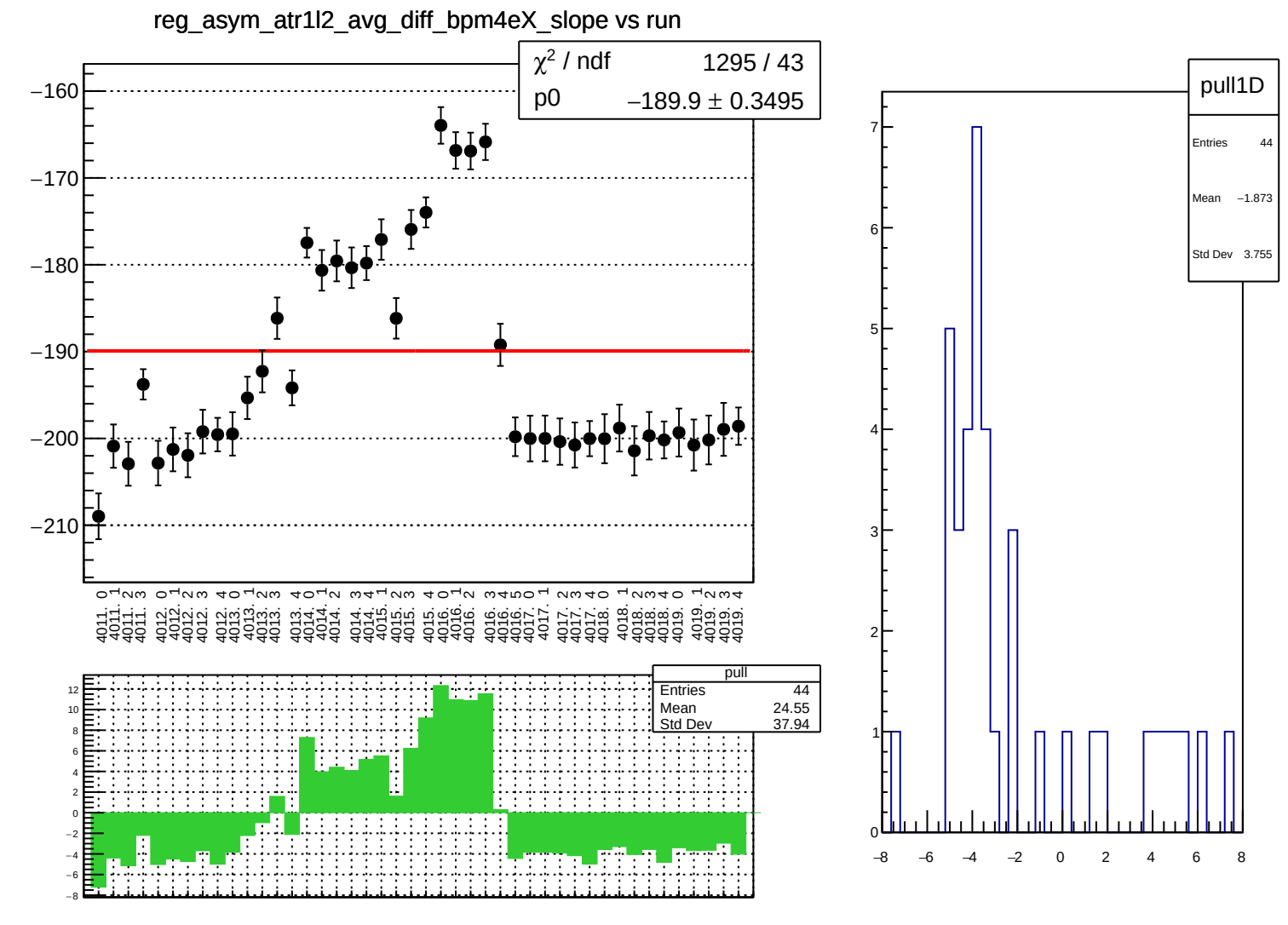

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 2941 / 43
p0 233 ± 0.4089
pull
Entries 44
Mean 68.55
Std Dev 35.23

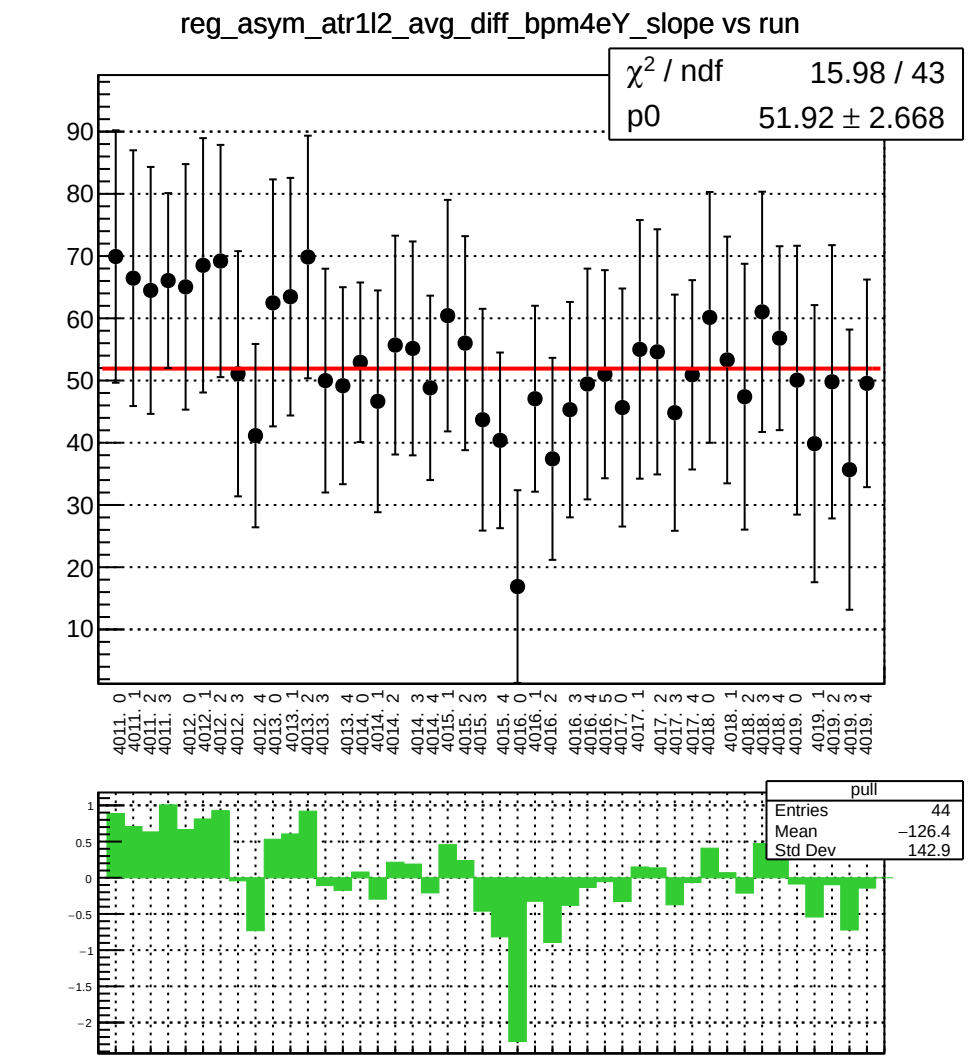

pull1D
Entries 44
Mean 3.231
Std Dev 2.536

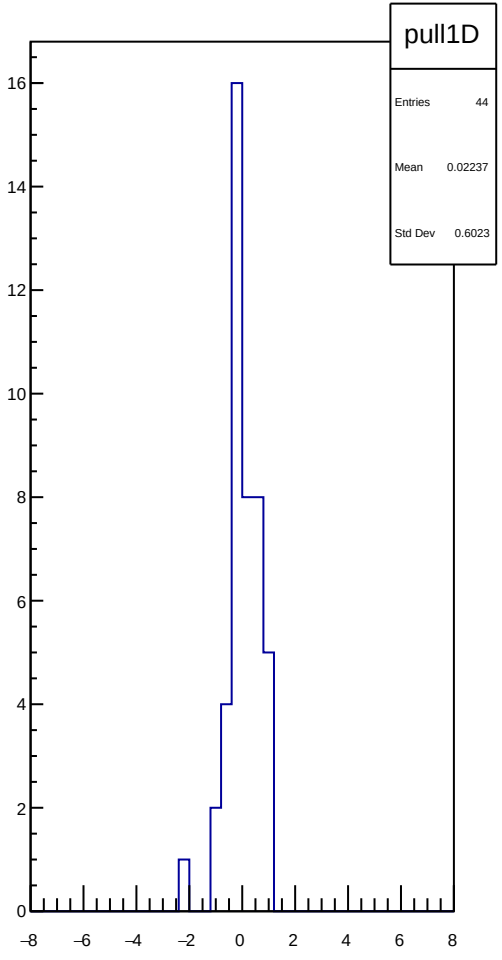

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 71.87 / 43
p0 29.91 ± 2.146
pull
Entries 44
Mean 113.7
Std Dev 72.25
pull1D
Entries 44
Mean −0.03055
Std Dev 1.278

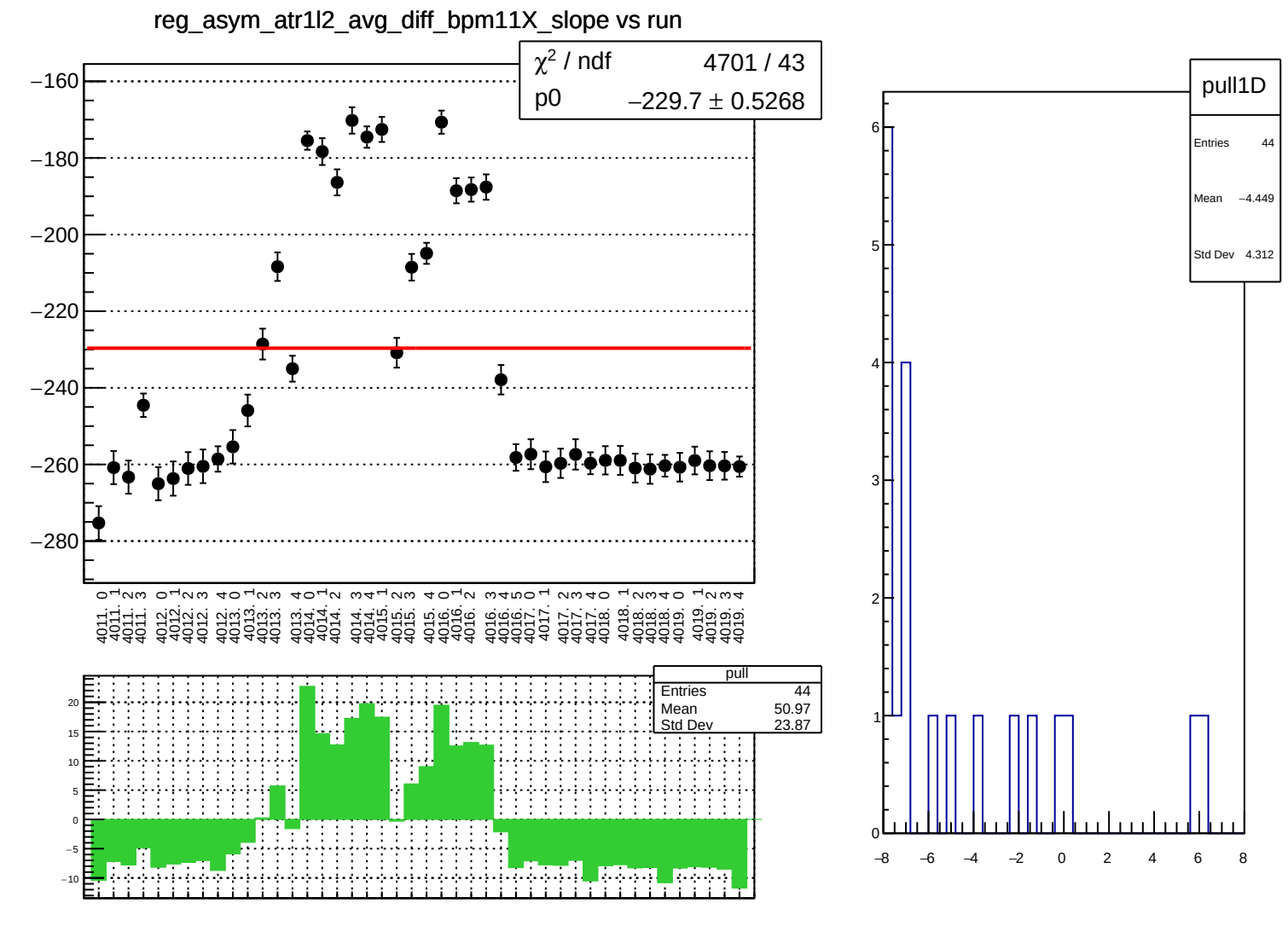

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.45 / 43
p0 4.004 ± 1.542
pull
Entries 44
Mean 483.8
Std Dev 461.4

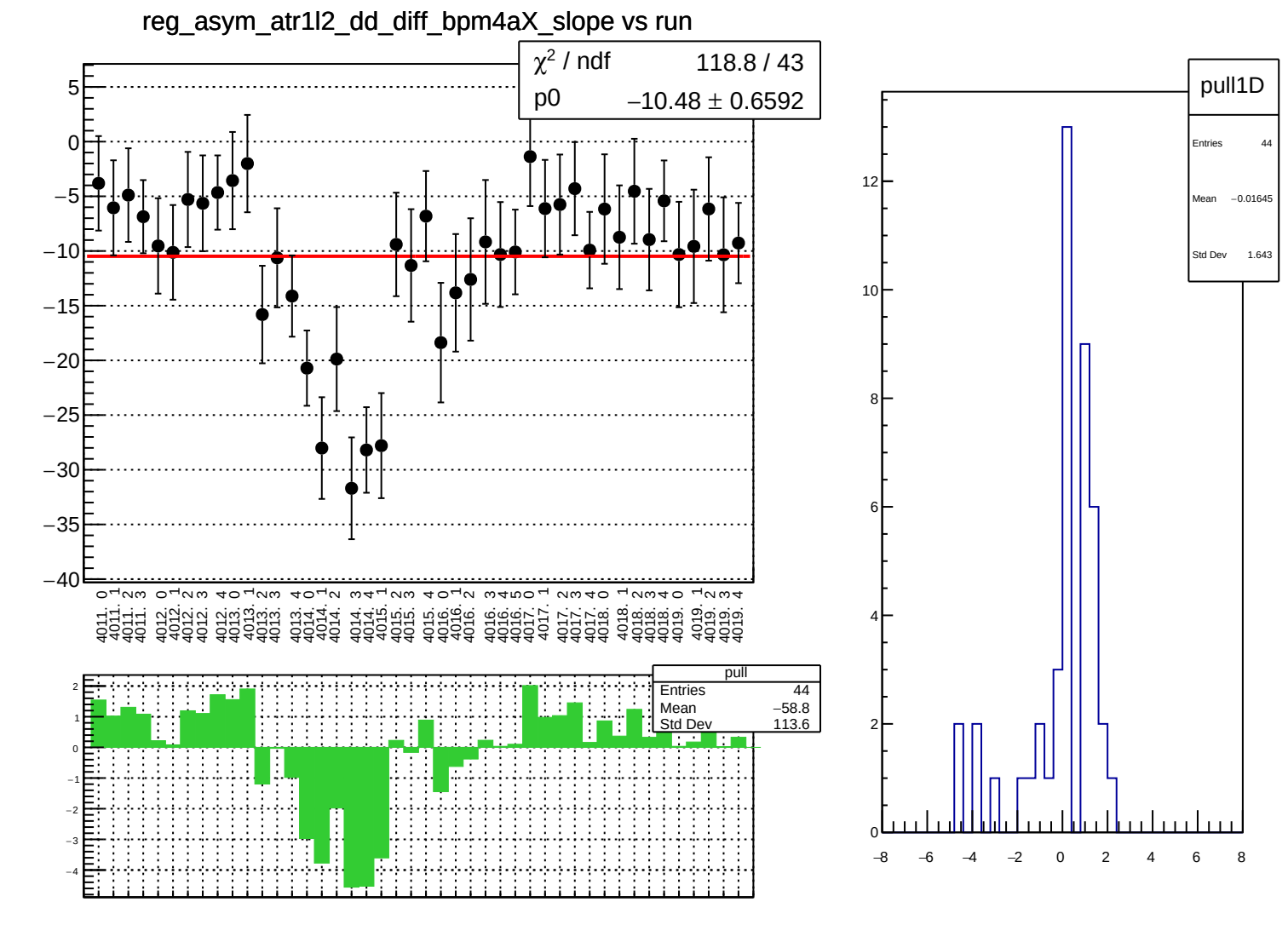

pull1D
Entries 44
Mean 0.006932
Std Dev 0.4874

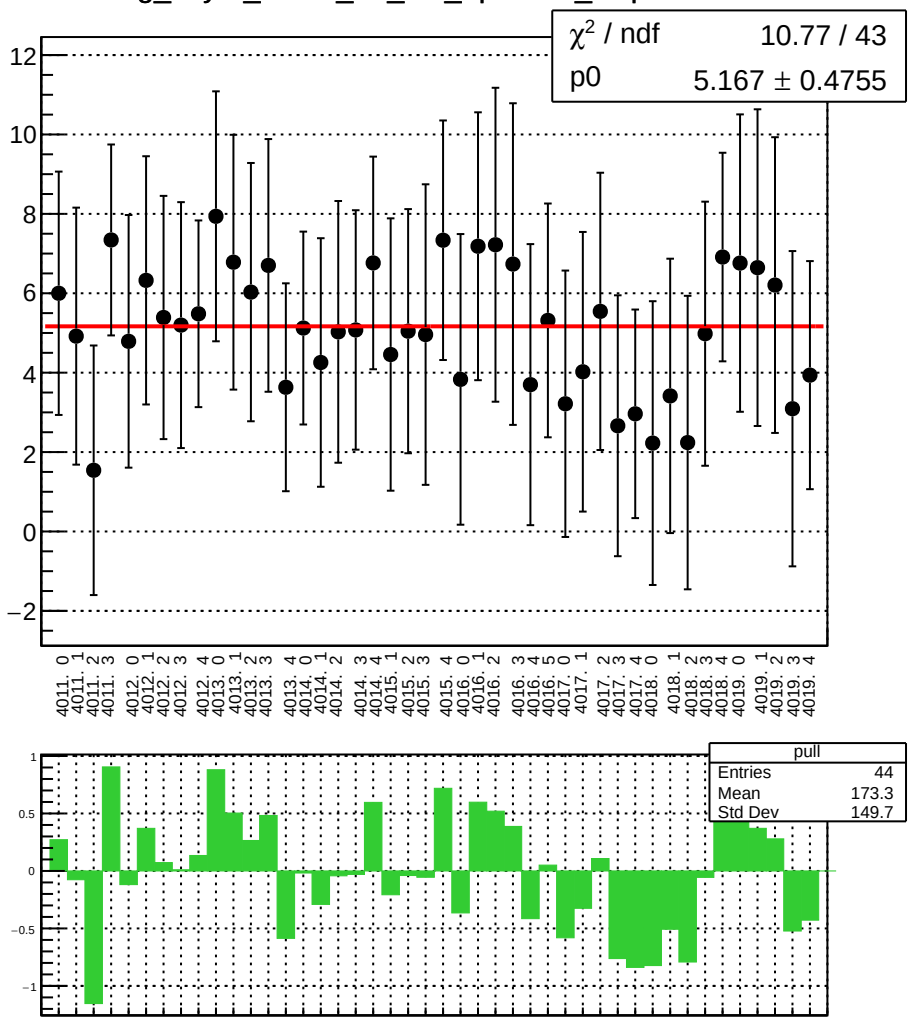

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 1295 / 43
p0 −189.9 ± 0.3495
pull
Entries 44
Mean 24.55
Std Dev 37.94
pull1D
Entries 44
Mean −1.873
Std Dev 3.755

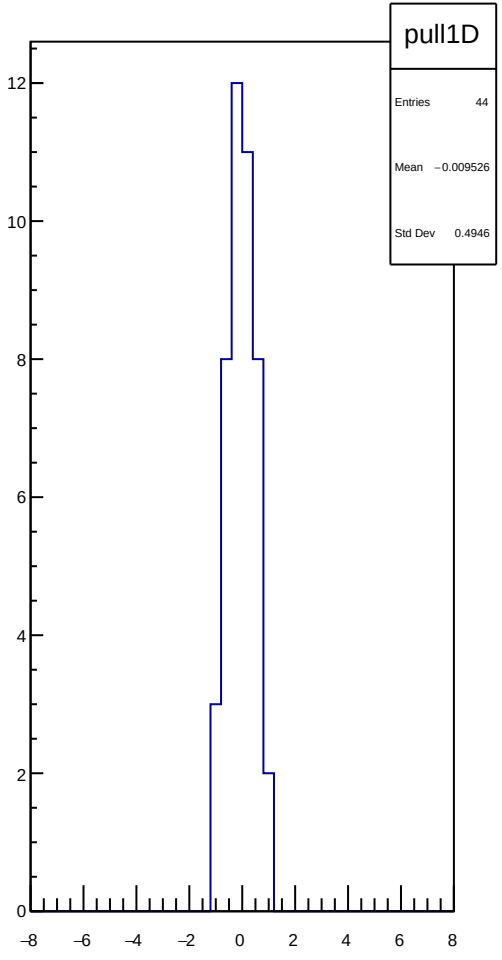

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.98 / 43
p0 51.92 ± 2.668
pull
Entries 44
Mean −126.4
Std Dev 142.9

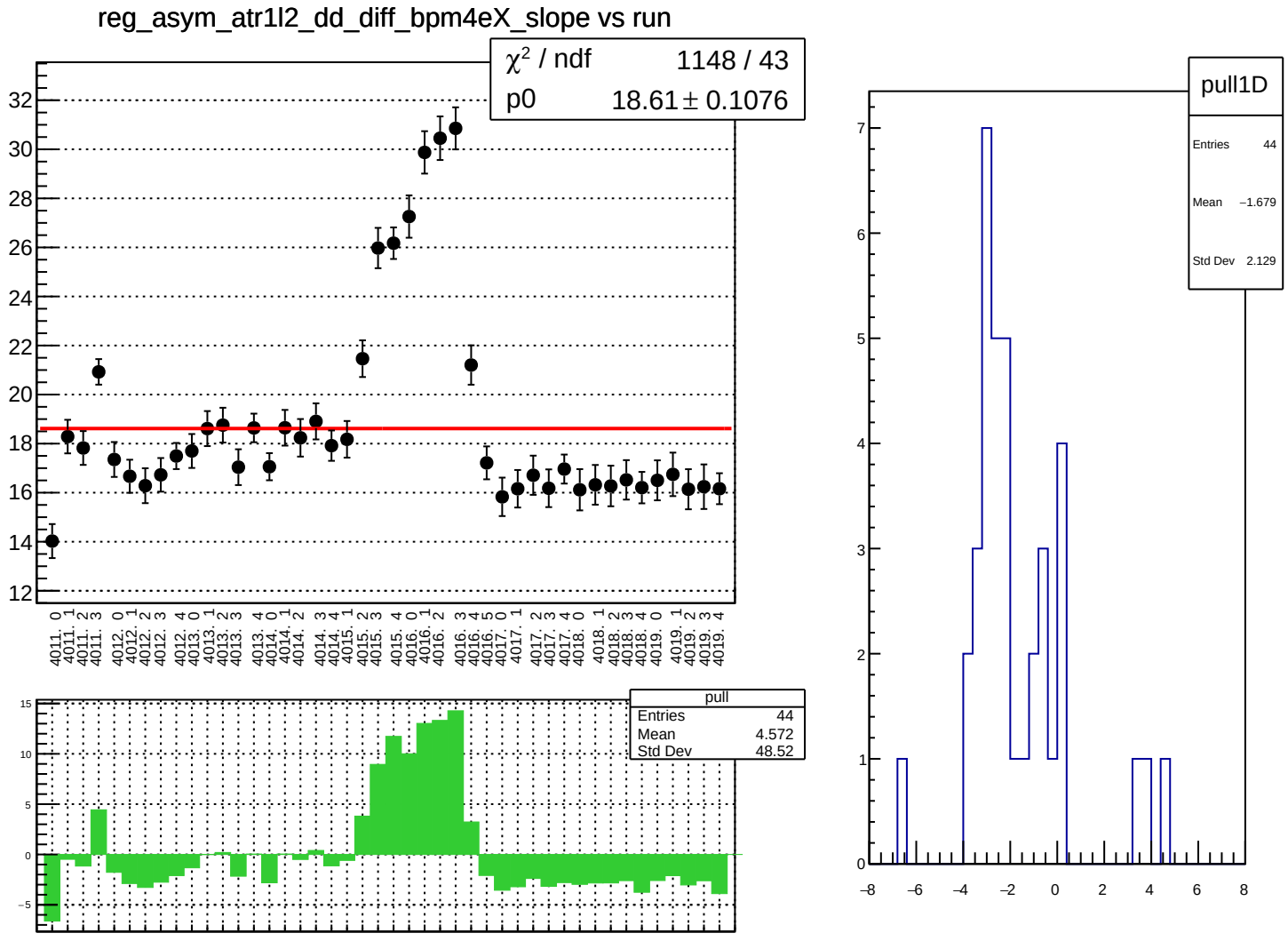

pull1D
Entries 44
Mean 0.02237
Std Dev 0.6023

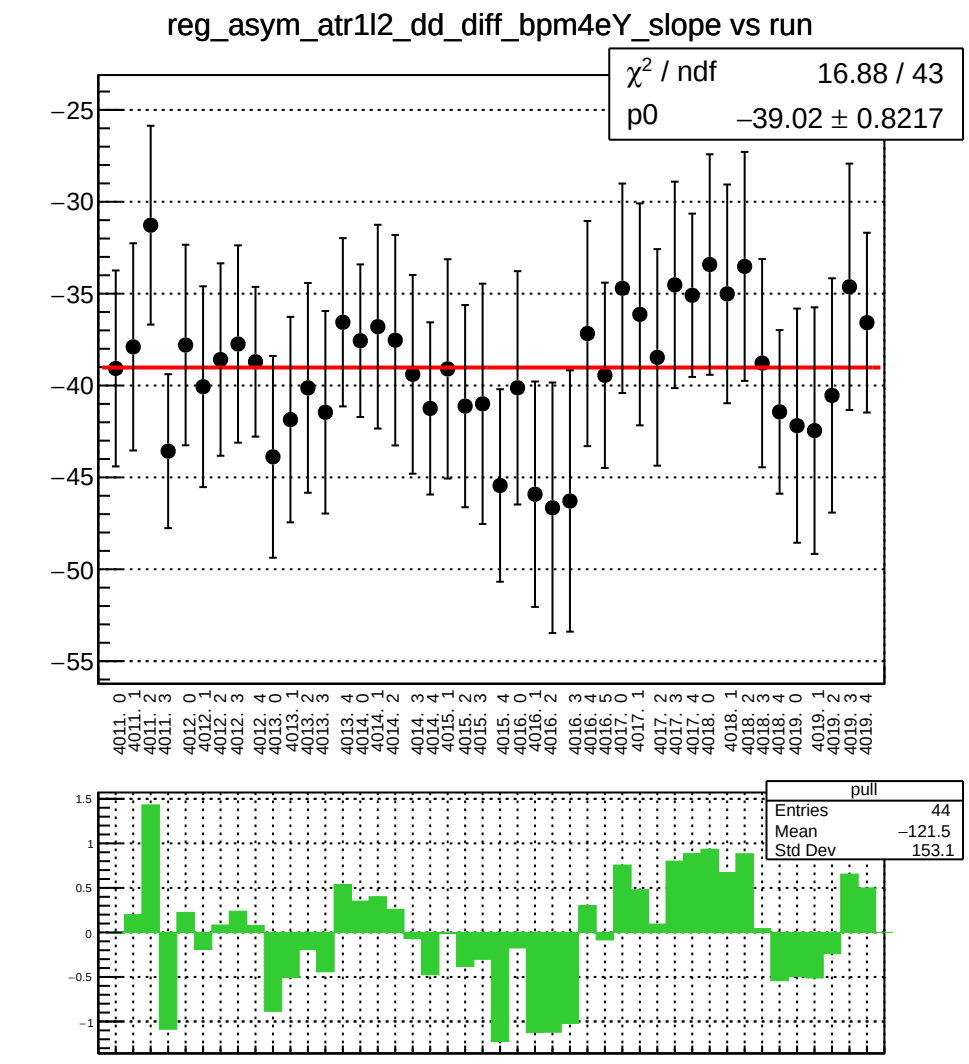

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 4701 / 43
p0 −229.7 ± 0.5268
pull
Entries 44
Mean 50.97
Std Dev 23.87
pull1D
Entries 44
Mean −4.449
Std Dev 4.312

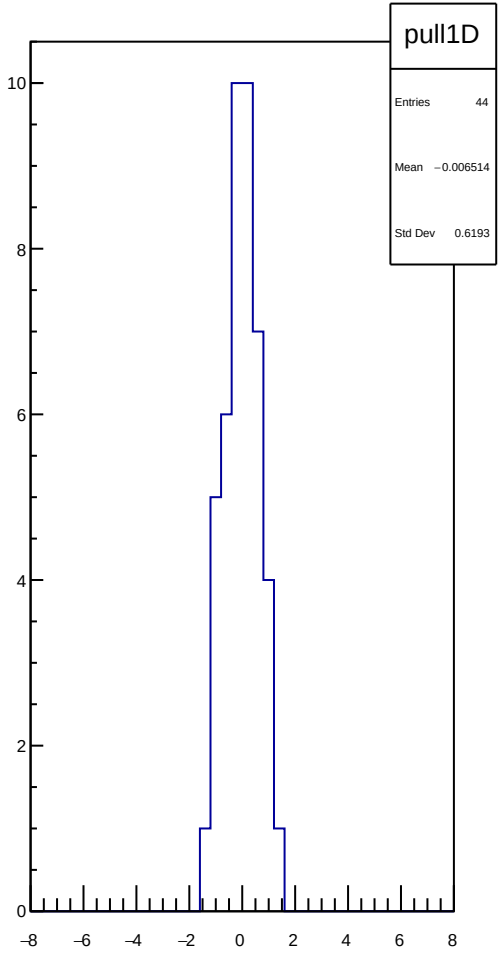

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 118.8 / 43
p0 −10.48 ± 0.6592
pull
Entries 44
Mean −58.8
Std Dev 113.6
pull1D
Entries 44
Mean −0.01645
Std Dev 1.643

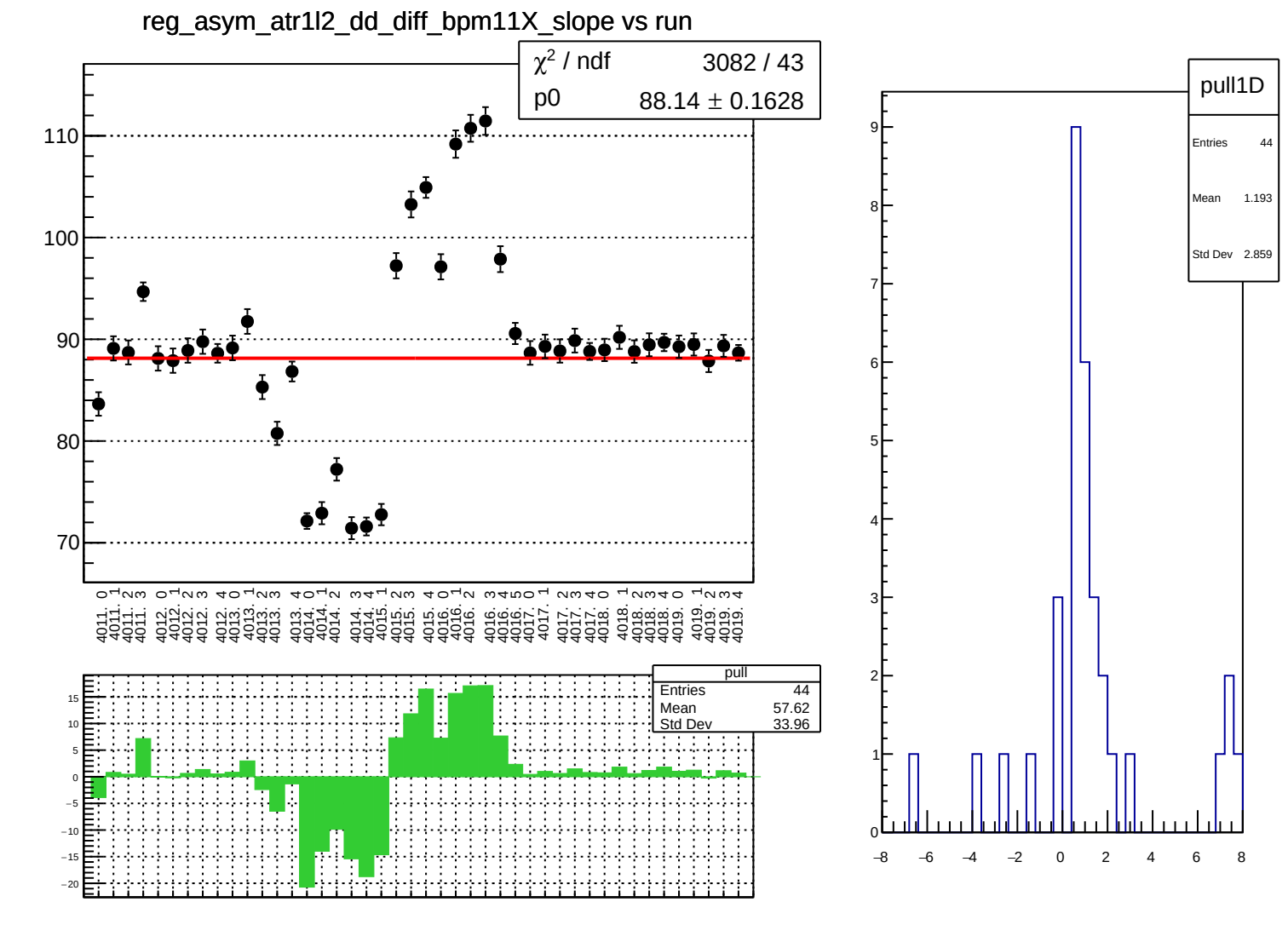

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.77 / 43
p0 5.167 ± 0.4755
pull
Entries 44
Mean 173.3
Std Dev 149.7

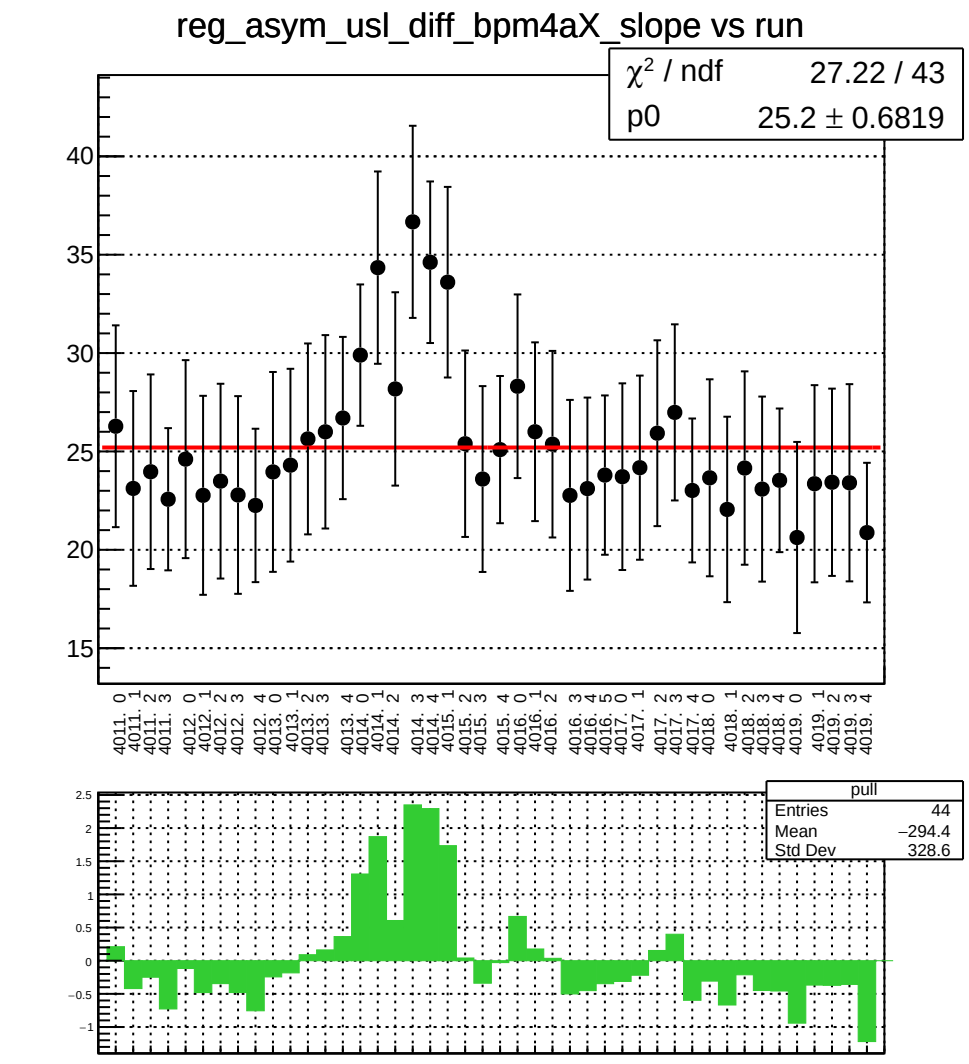

pull1D
Entries 44
Mean −0.009526
Std Dev 0.4946

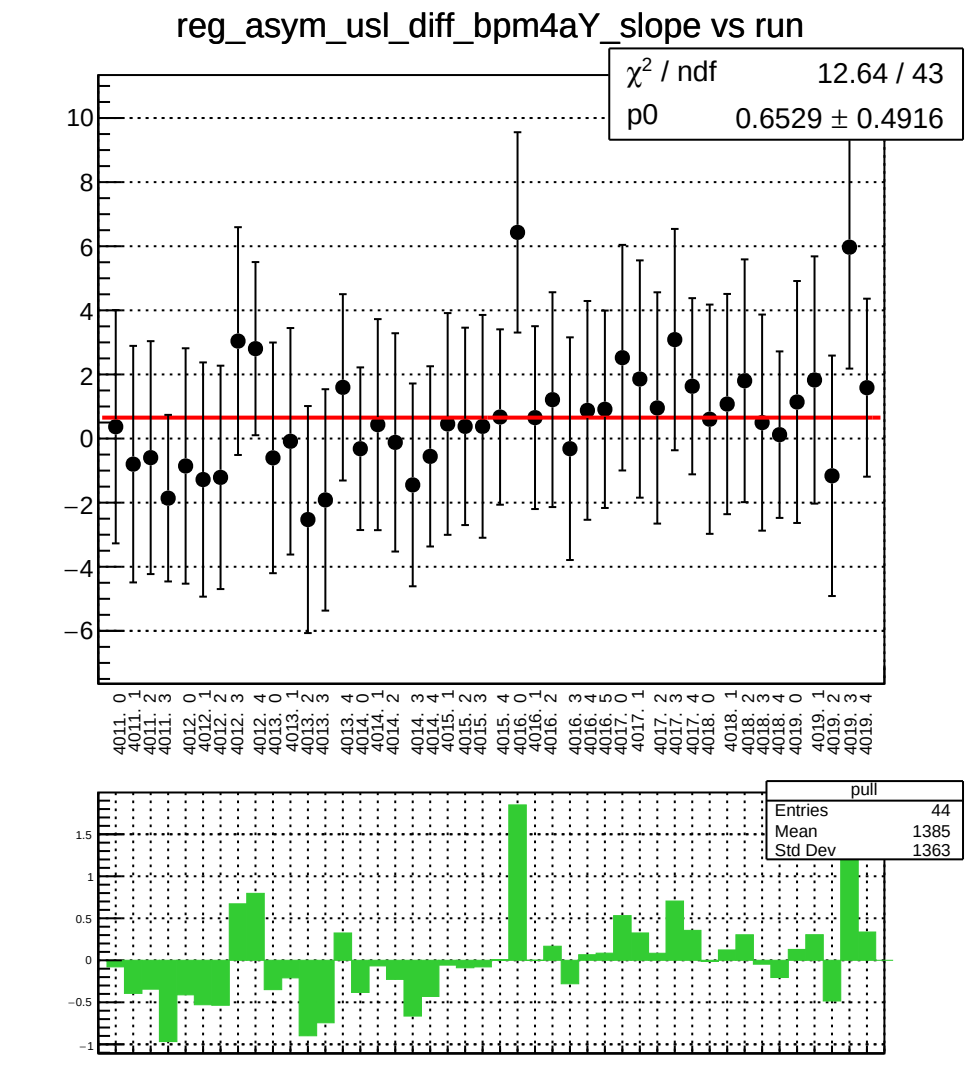

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 1148 / 43
p0 18.61 ± 0.1076
pull
Entries 44
Mean 4.572
Std Dev 48.52
pull1D
Entries 44
Mean −1.679
Std Dev 2.129

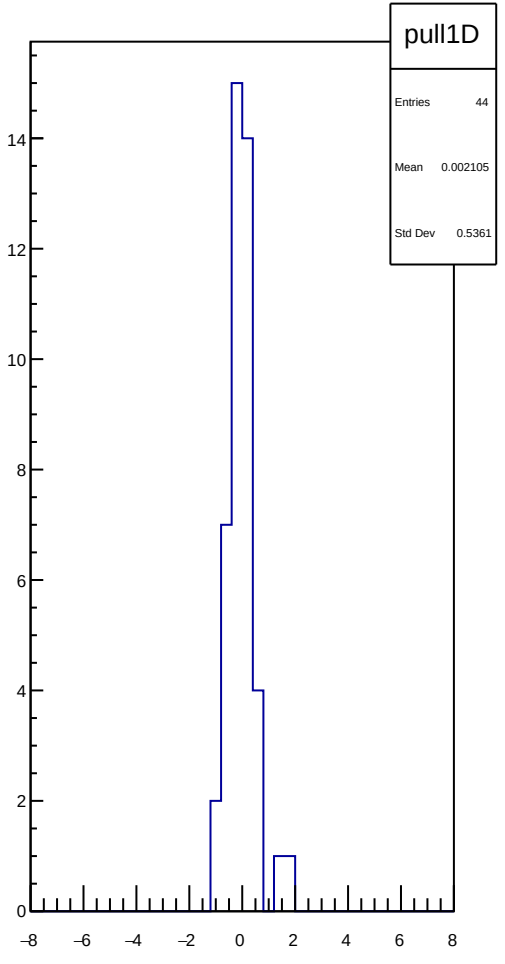

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.88 / 43
p0 −39.02 ± 0.8217
pull
Entries 44
Mean −121.5
Std Dev 153.1

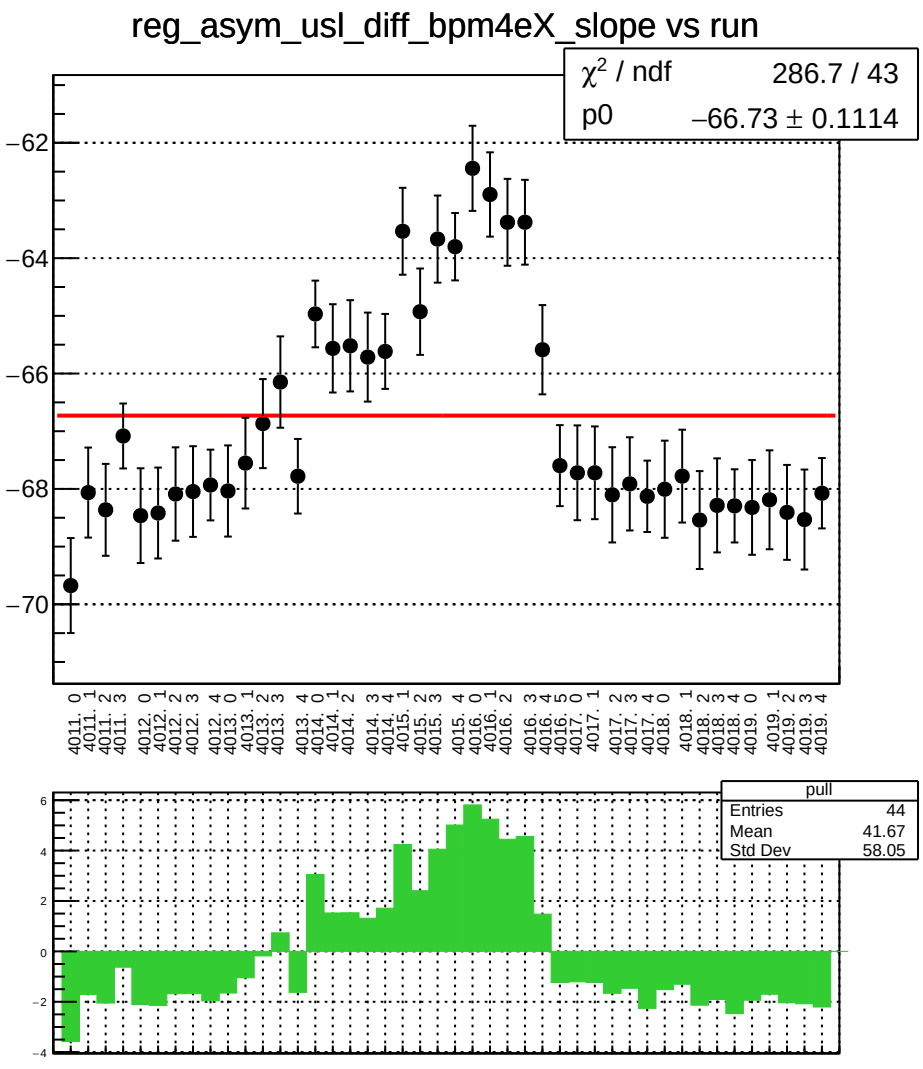

pull1D
Entries 44
Mean −0.006514
Std Dev 0.6193

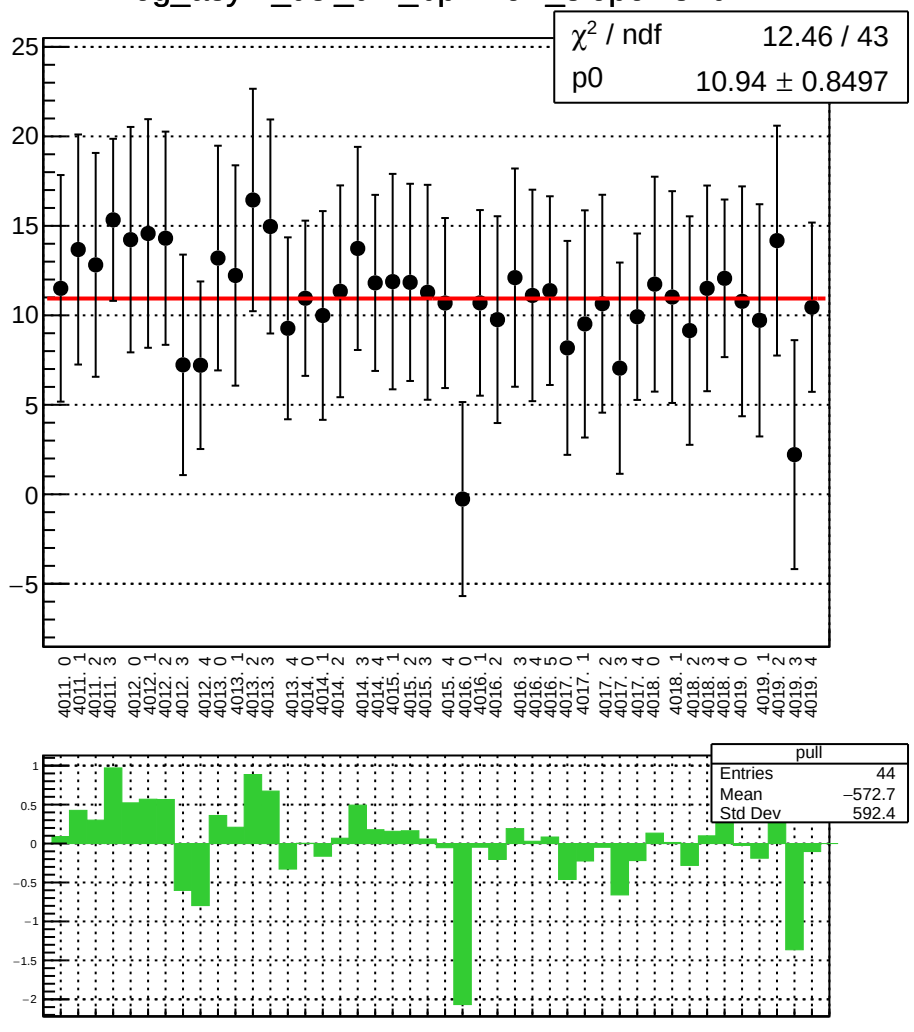

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 3082 / 43
p0 88.14 ± 0.1628
110
100
90
80
70
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 57.62
Std Dev 33.96
15
10
5
0
−5
−10
−15
−20
pull1D
Entries 44
Mean 1.193
Std Dev 2.859
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

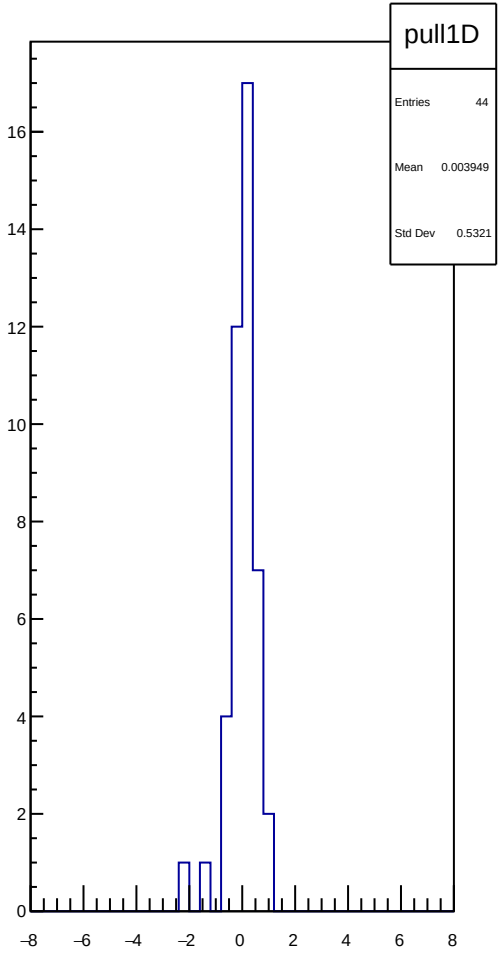

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 27.22 / 43
p0 25.2 ± 0.6819
40
35
30
25
20
15
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −294.4
Std Dev 328.6
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 44
Mean 0.007112
Std Dev 0.7865
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

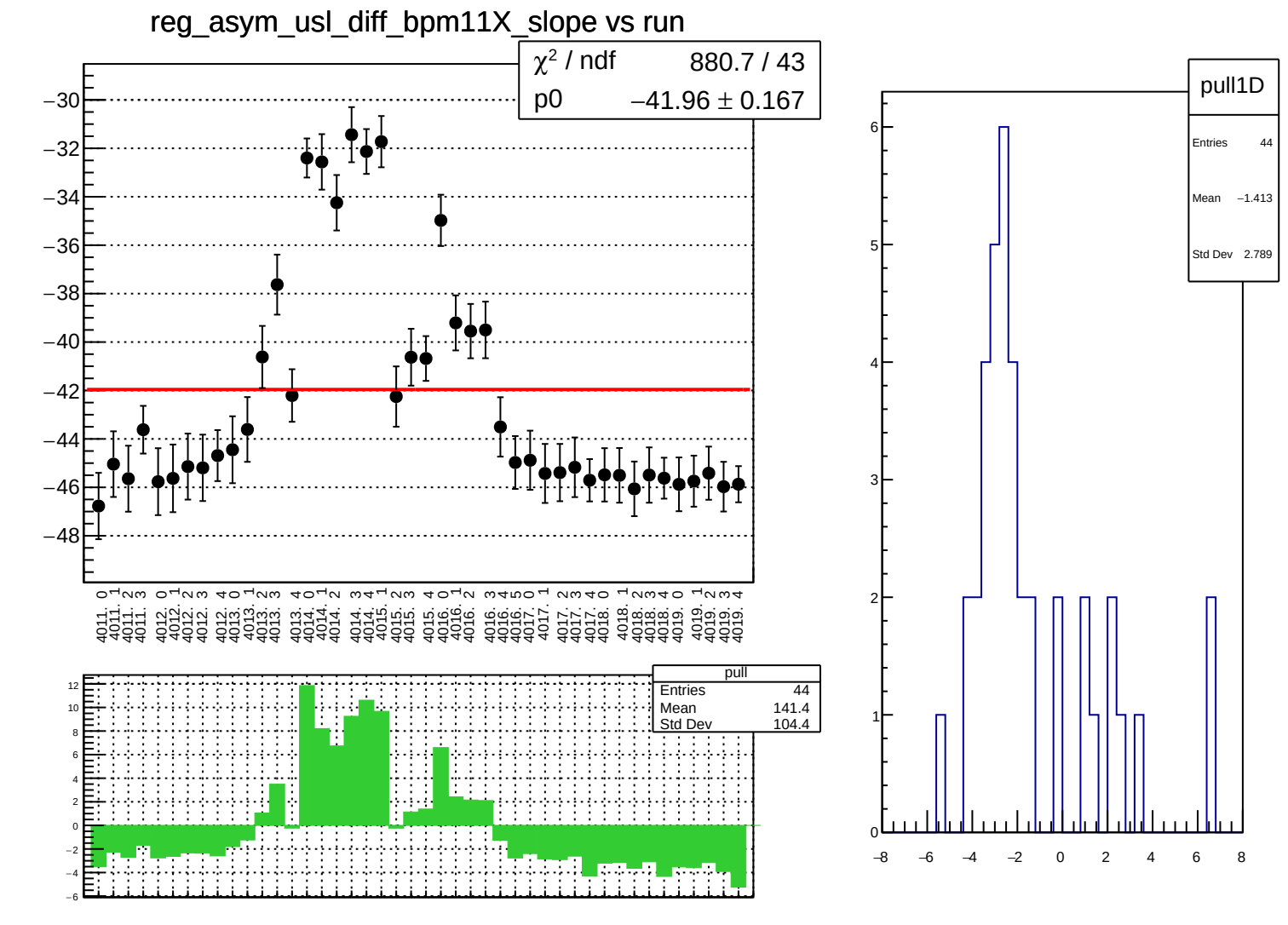

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 12.64 / 43
p0 0.6529 ± 0.4916
pull
Entries 44
Mean 1385
Std Dev 1363

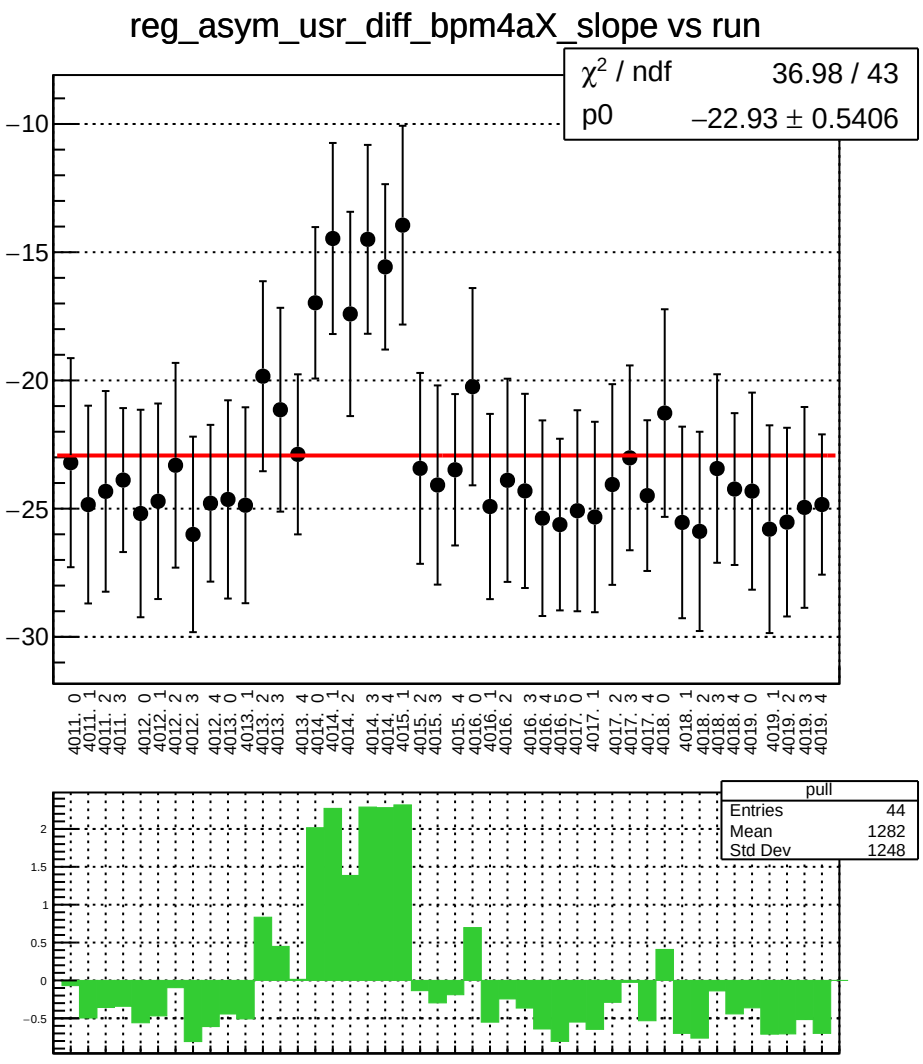

pull1D
Entries 44
Mean 0.002105
Std Dev 0.5361

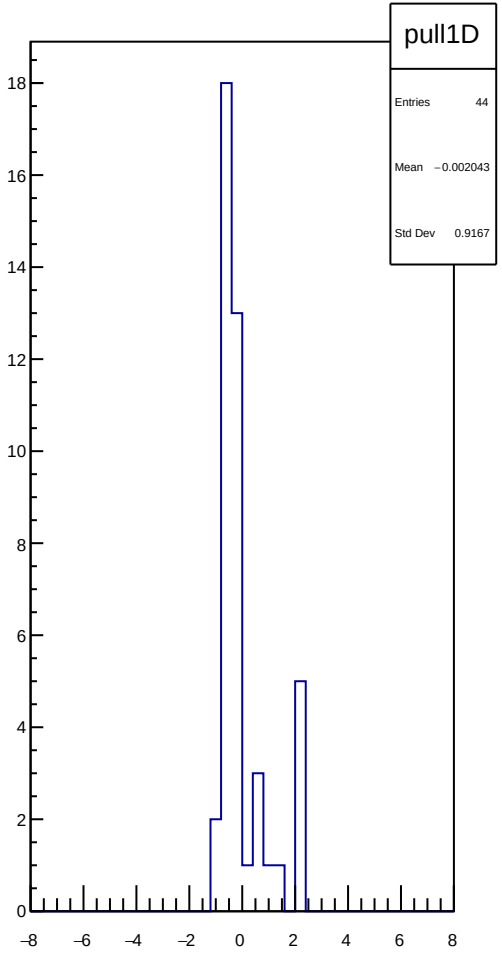

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 286.7 / 43
p0 −66.73 ± 0.1114
−62
−64
−66
−68
−70
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 41.67
Std Dev 58.05
6
4
2
0
−2
−4
pull1D
Entries 44
Mean −0.07438
Std Dev 2.552
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

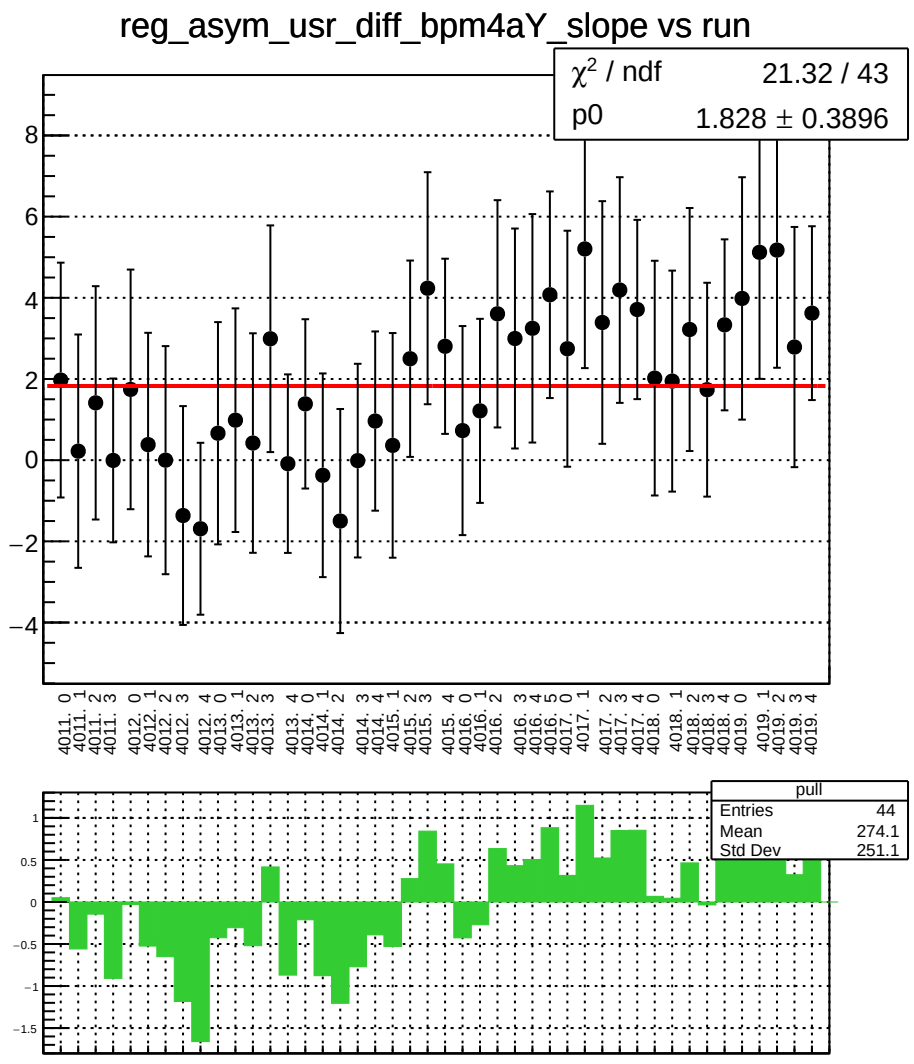

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 12.46 / 43
p0 10.94 ± 0.8497
pull
Entries 44
Mean −572.7
Std Dev 592.4

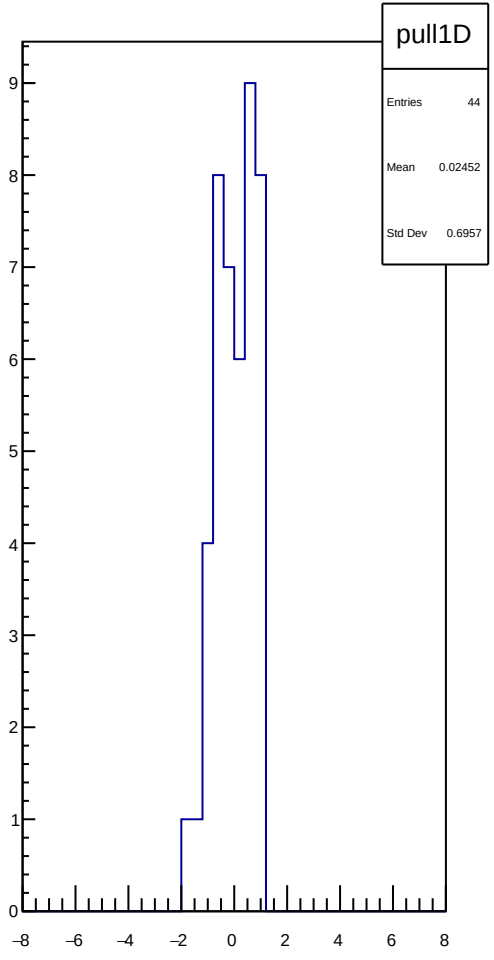

pull1D
Entries 44
Mean 0.003949
Std Dev 0.5321

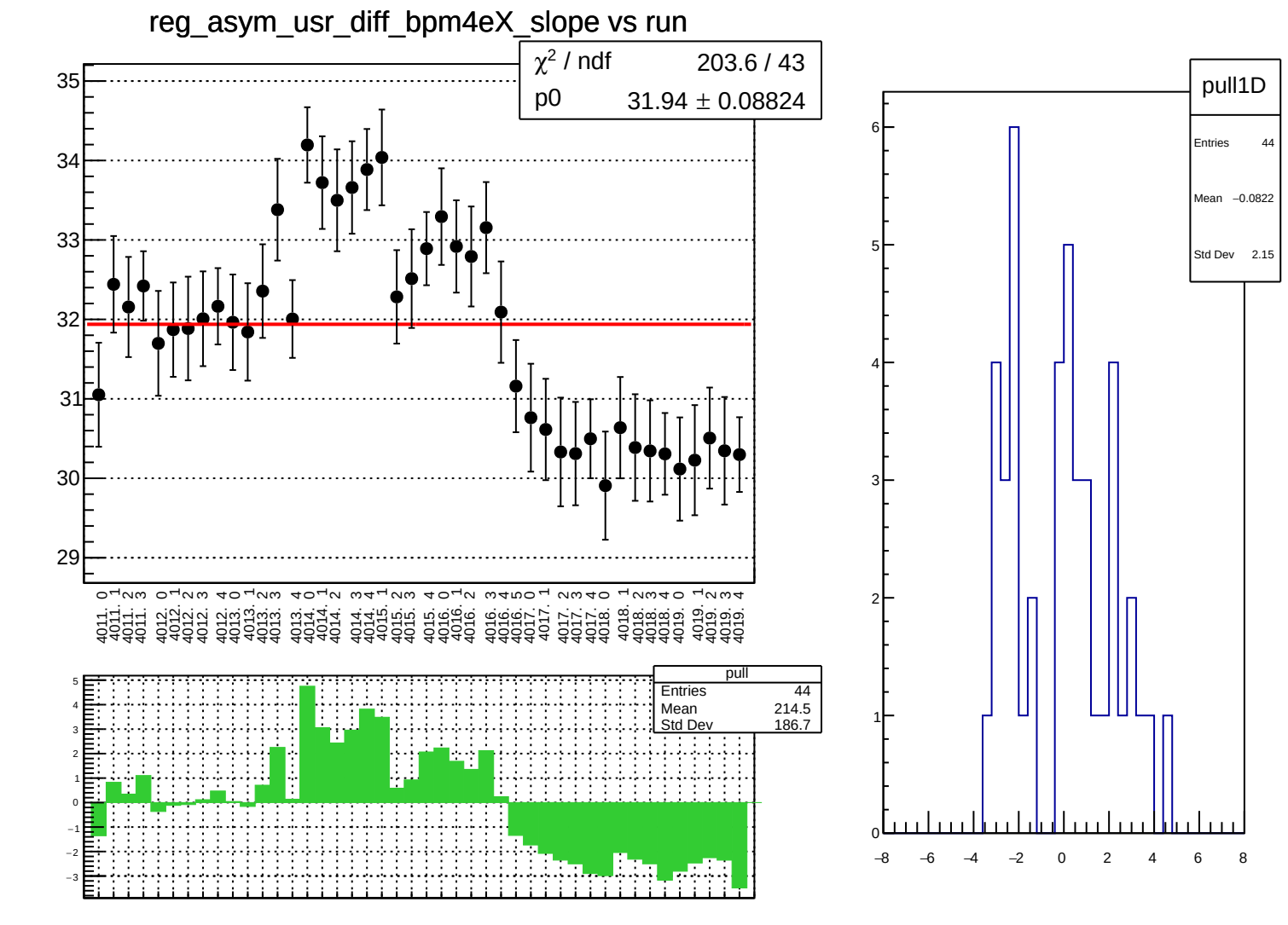

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 880.7 / 43
p0 −41.96 ± 0.167
pull
Entries 44
Mean 141.4
Std Dev 104.4
pull1D
Entries 44
Mean −1.413
Std Dev 2.789

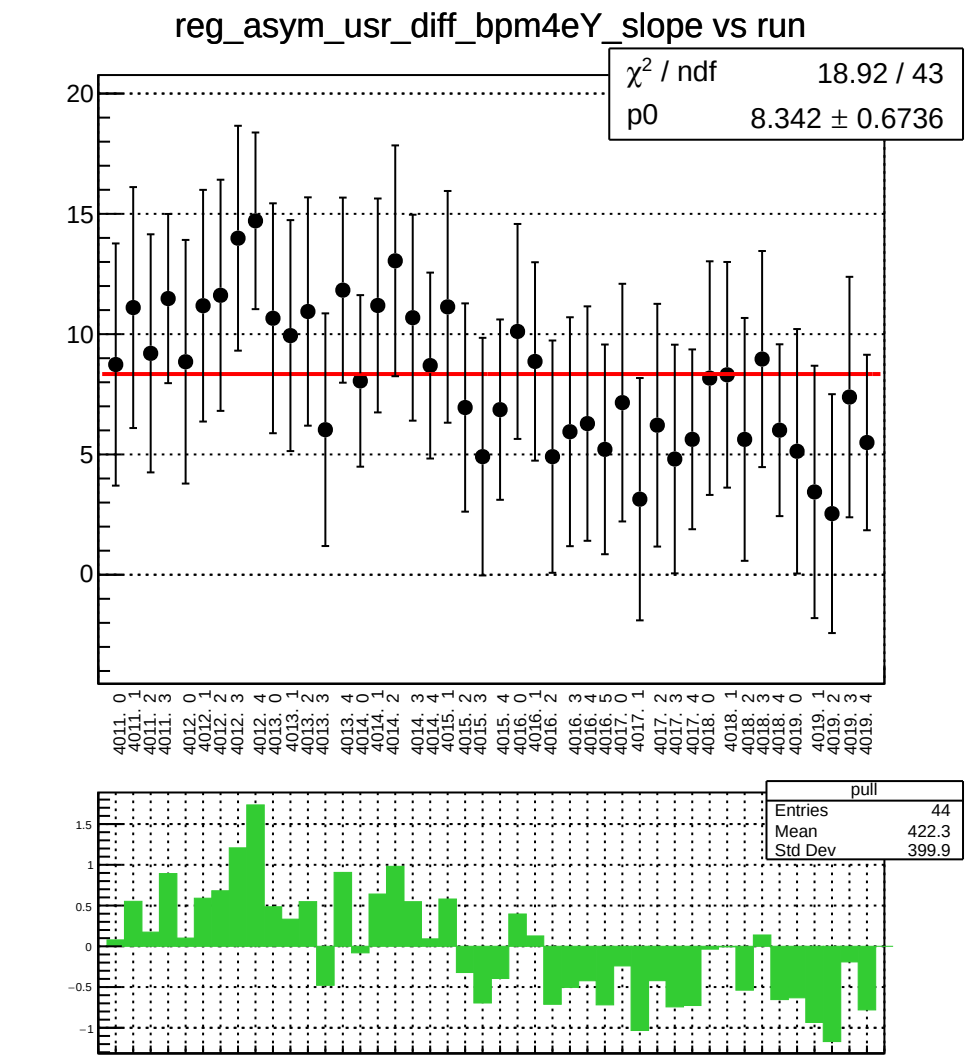

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 36.98 / 43
p0 −22.93 ± 0.5406
pull
Entries 44
Mean 1282
Std Dev 1248

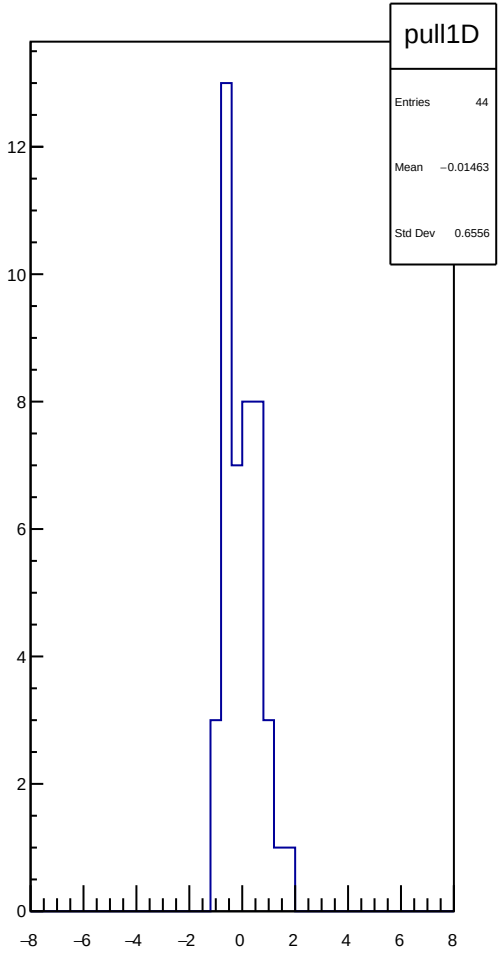

pull1D
Entries 44
Mean −0.002043
Std Dev 0.9167

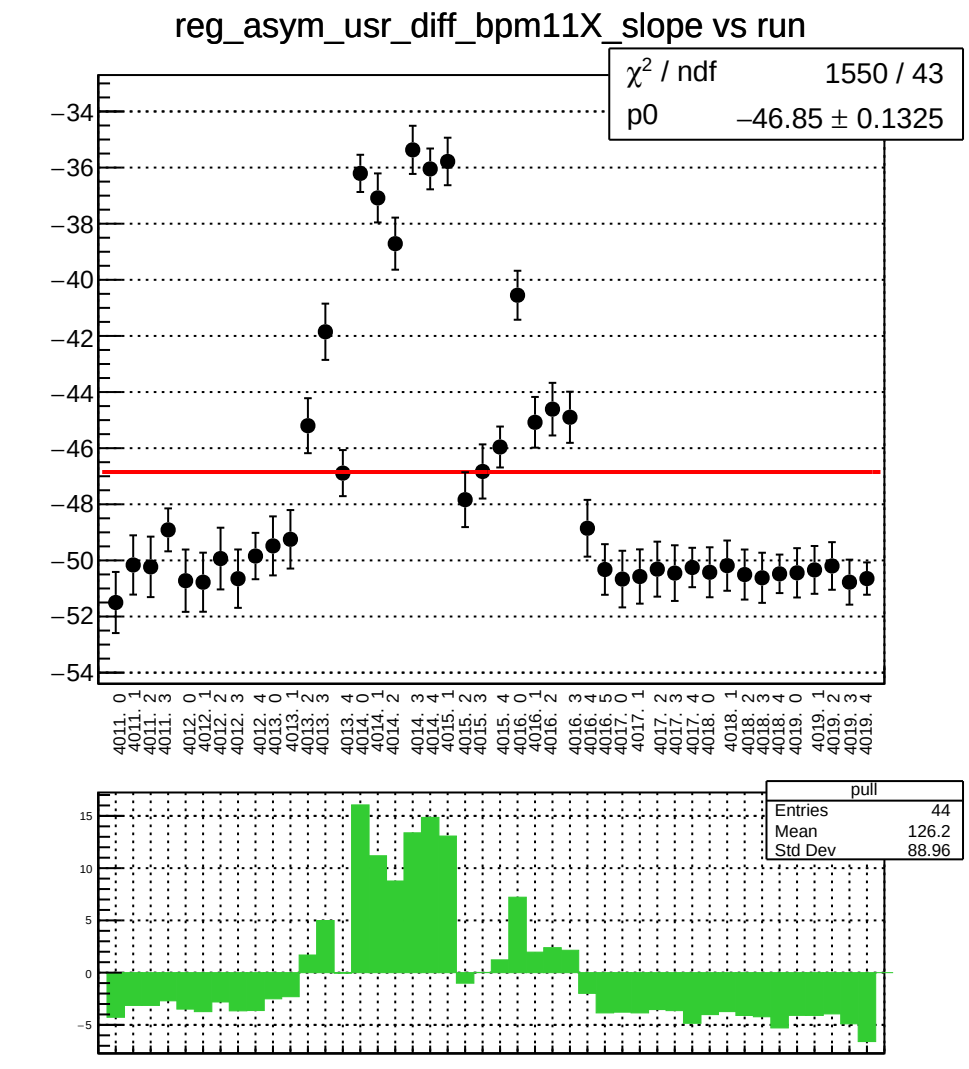

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 21.32 / 43
p0 1.828 ± 0.3896
pull
Entries 44
Mean 274.1
Std Dev 251.1

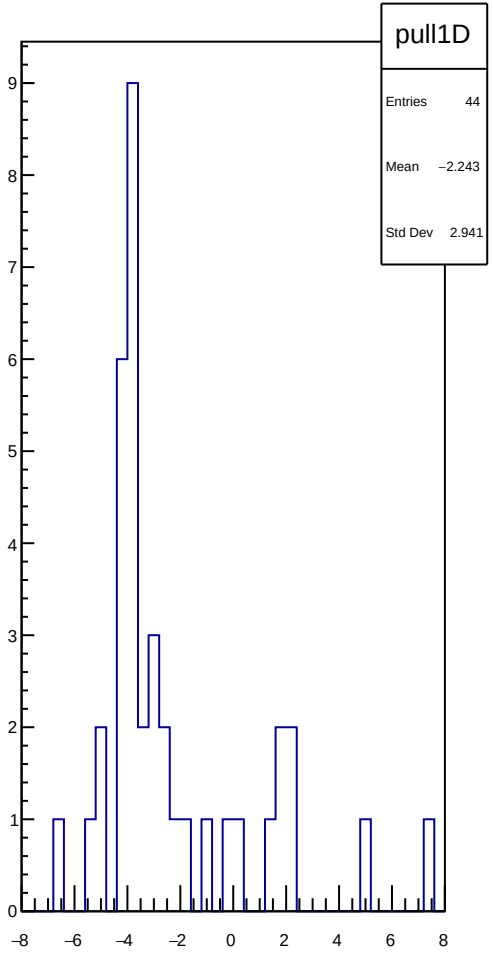

pull1D
Entries 44
Mean 0.02452
Std Dev 0.6957

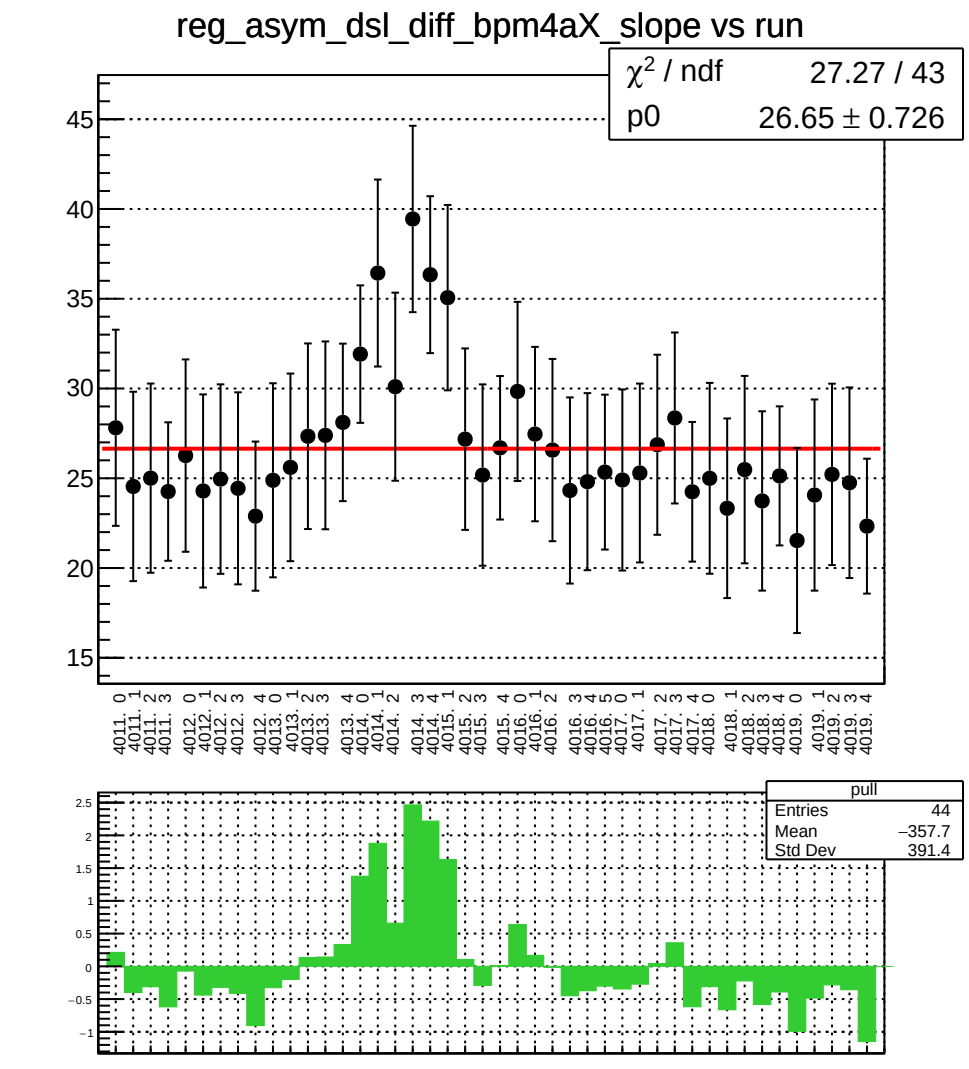

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 203.6 / 43
p0 31.94 ± 0.08824
pull
Entries 44
Mean 214.5
Std Dev 186.7
pull1D
Entries 44
Mean −0.0822
Std Dev 2.15

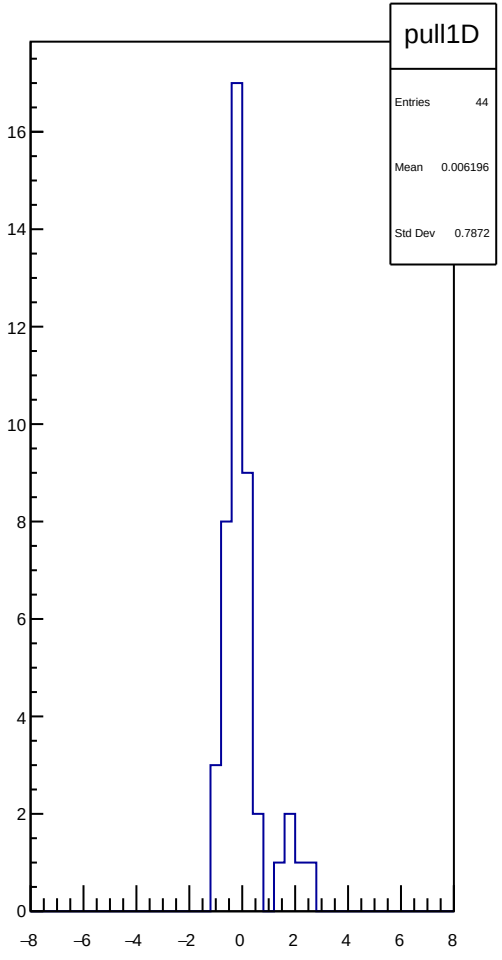

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 18.92 / 43
p0 8.342 ± 0.6736
pull
Entries 44
Mean 422.3
Std Dev 399.9

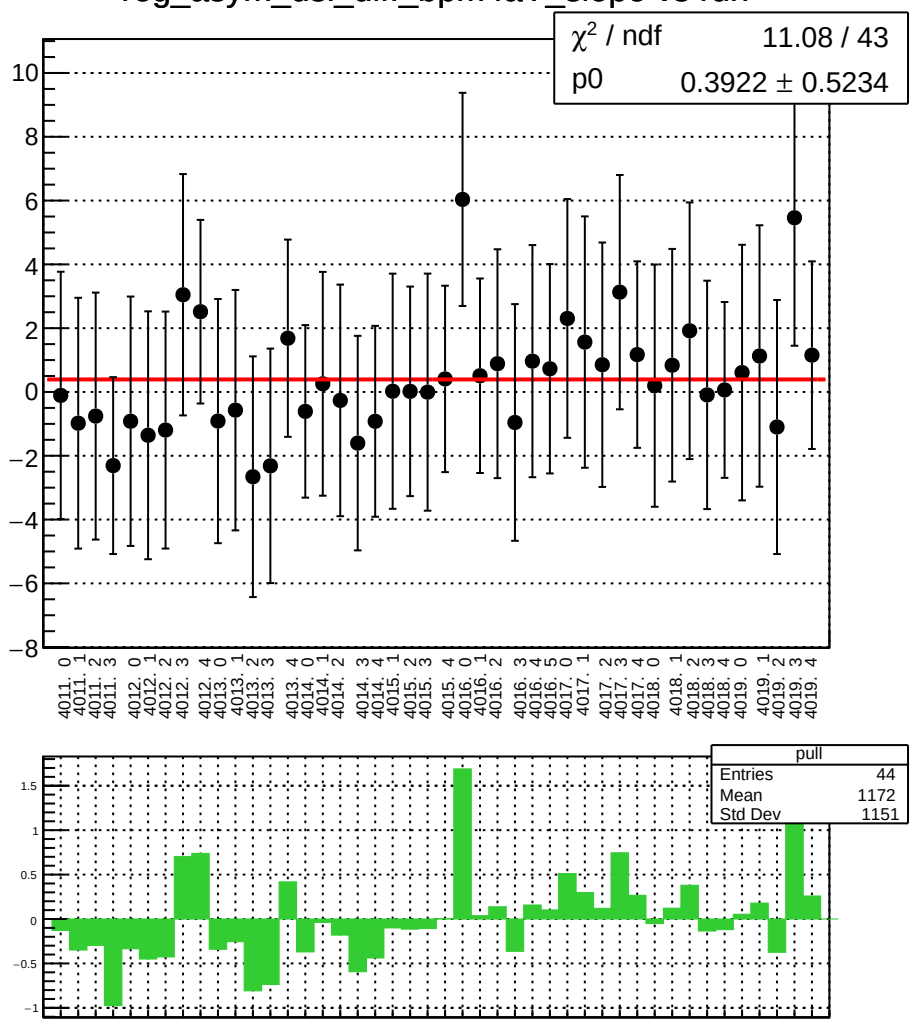

pull1D
Entries 44
Mean −0.01463
Std Dev 0.6556

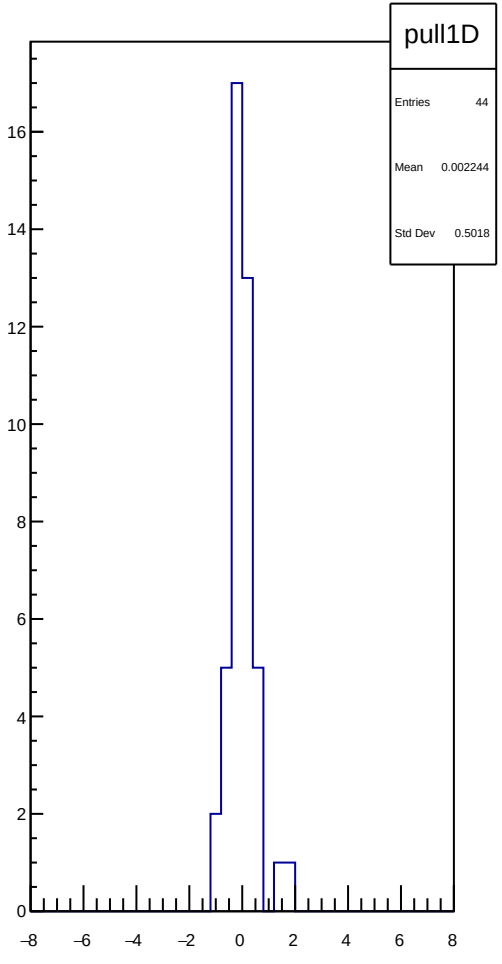

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 1550 / 43
p0 −46.85 ± 0.1325
pull
Entries 44
Mean 126.2
Std Dev 88.96

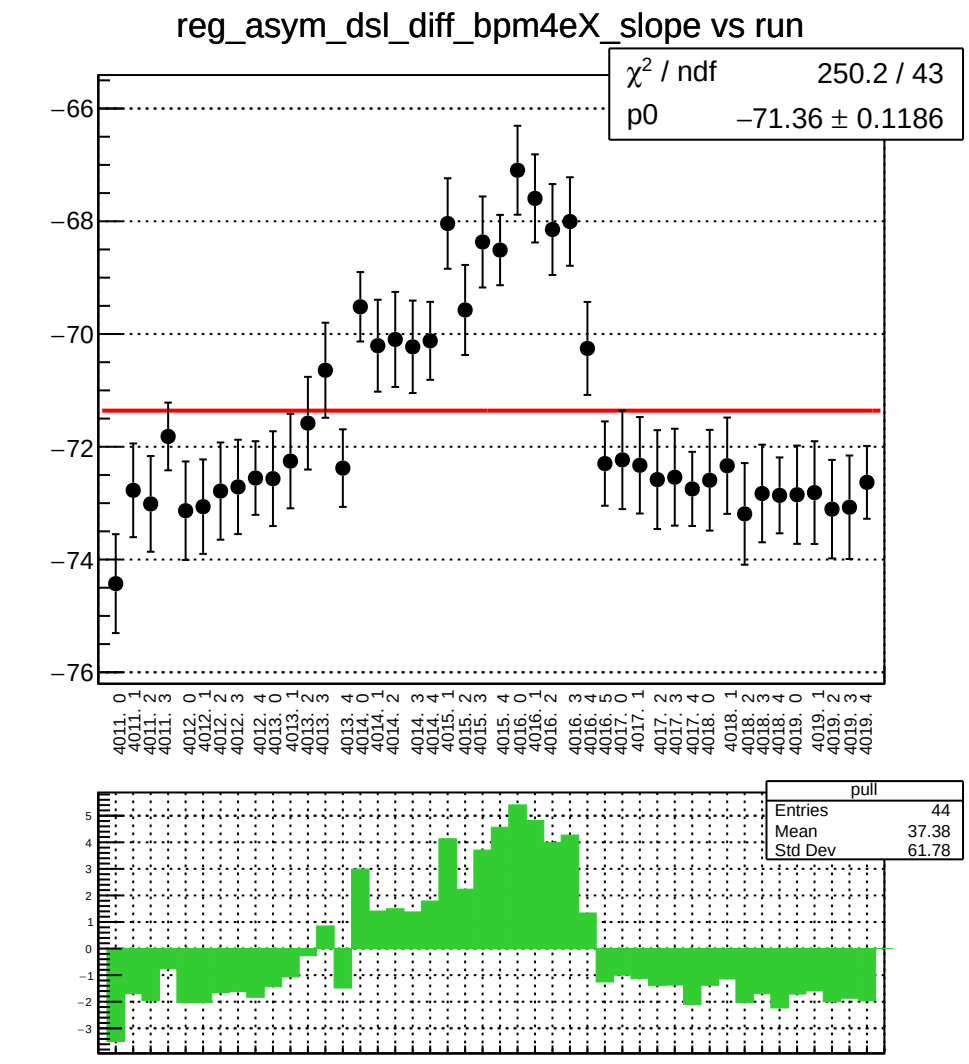

pull1D
Entries 44
Mean −2.243
Std Dev 2.941

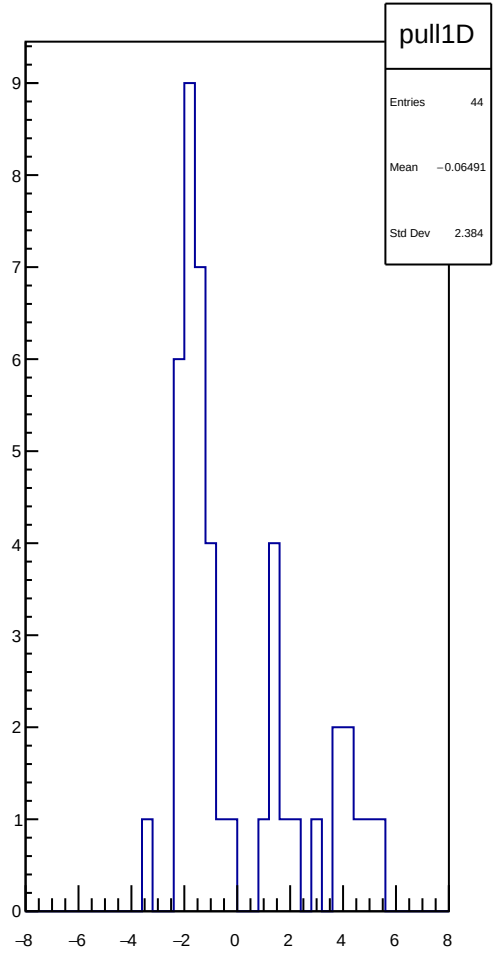

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 27.27 / 43
p0 26.65 ± 0.726
pull
Entries 44
Mean −357.7
Std Dev 391.4

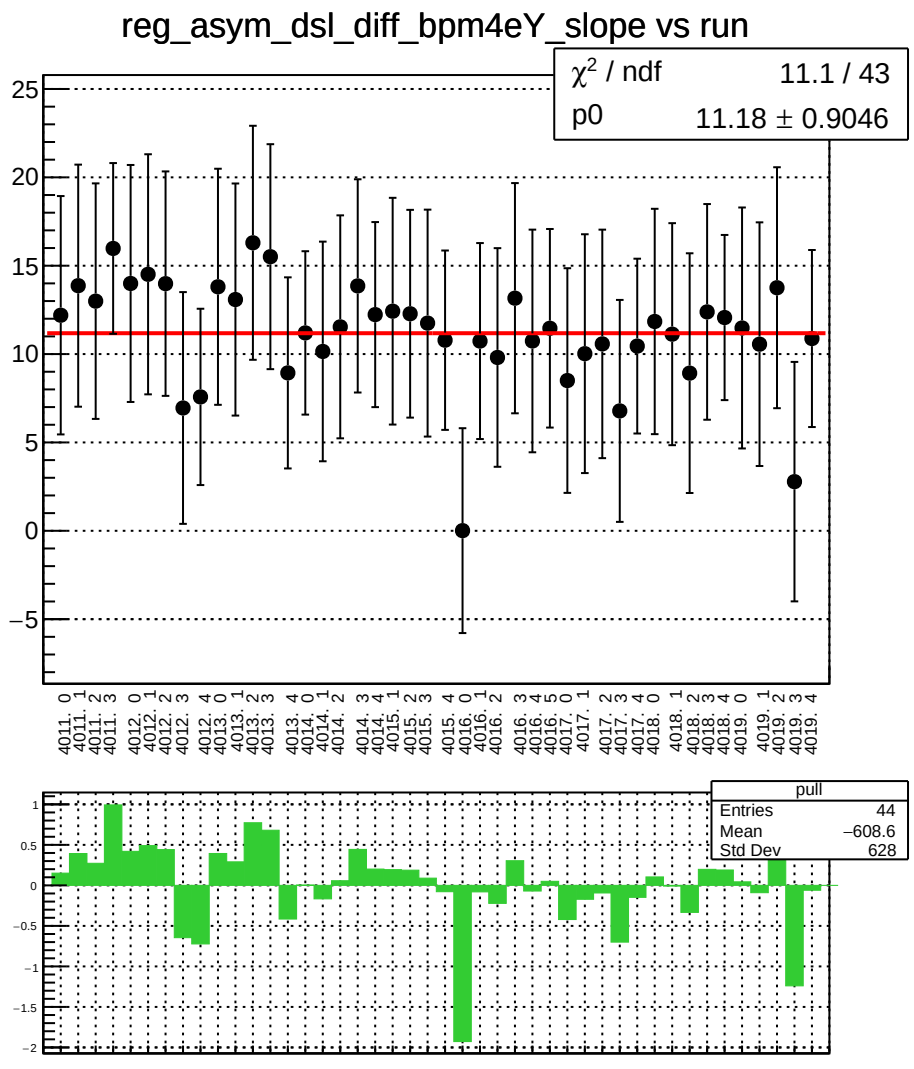

pull1D
Entries 44
Mean 0.006196
Std Dev 0.7872

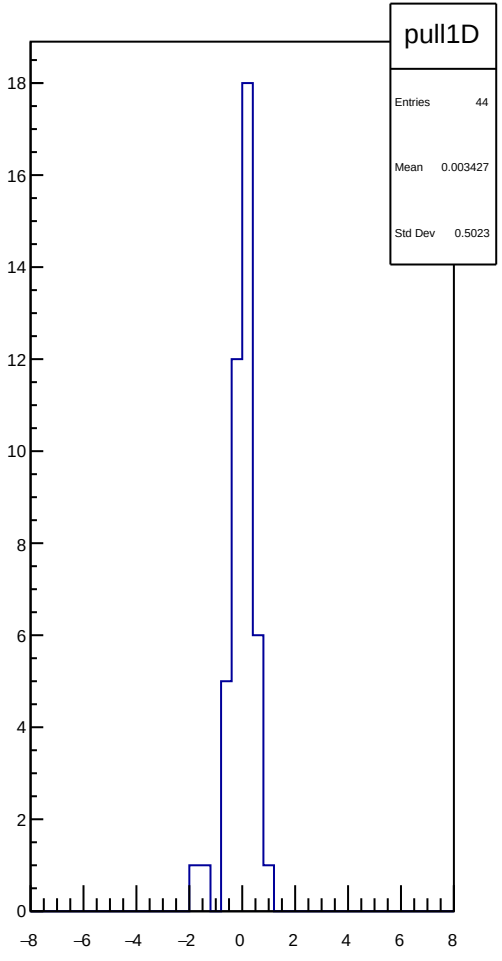

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 11.08 / 43
p0 0.3922 ± 0.5234
pull
Entries 44
Mean 1172
Std Dev 1151

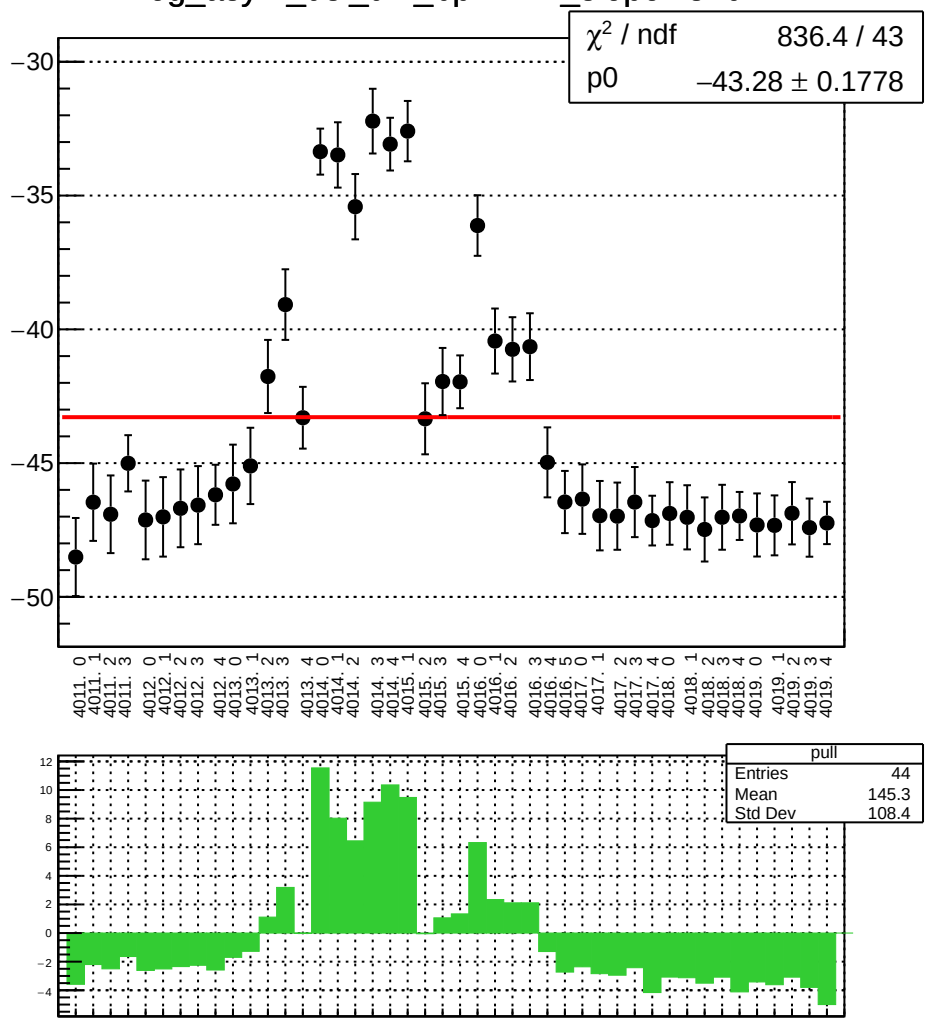

pull1D
Entries 44
Mean 0.002244
Std Dev 0.5018

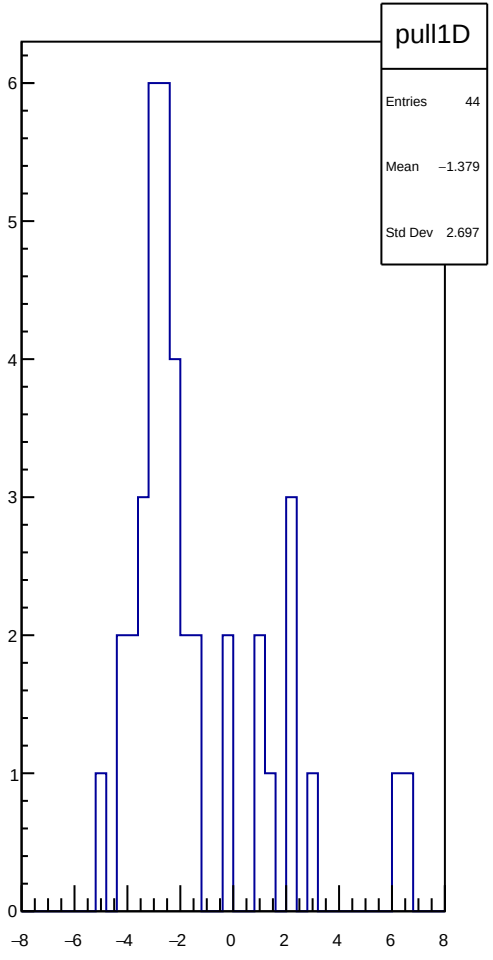

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 250.2 / 43
p0 −71.36 ± 0.1186
pull
Entries 44
Mean 37.38
Std Dev 61.78

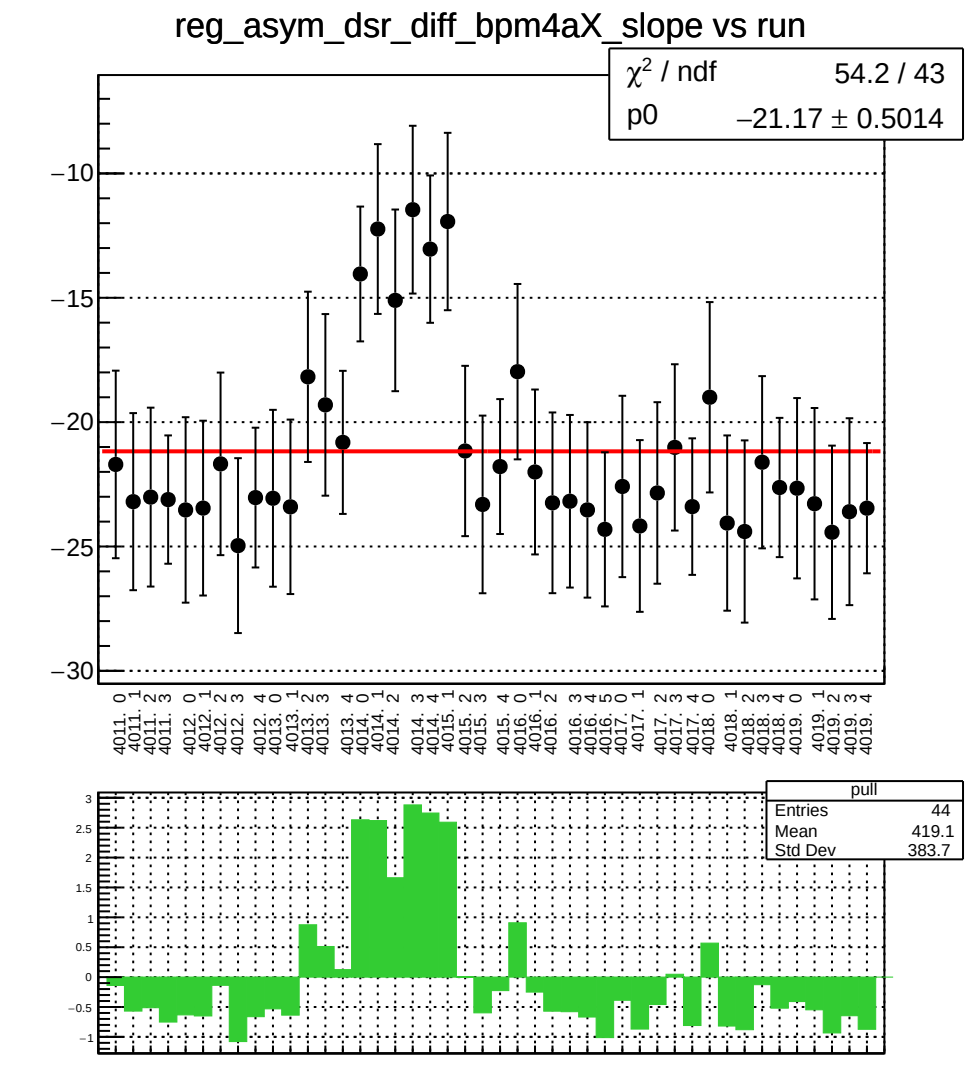

pull1D
Entries 44
Mean −0.06491
Std Dev 2.384

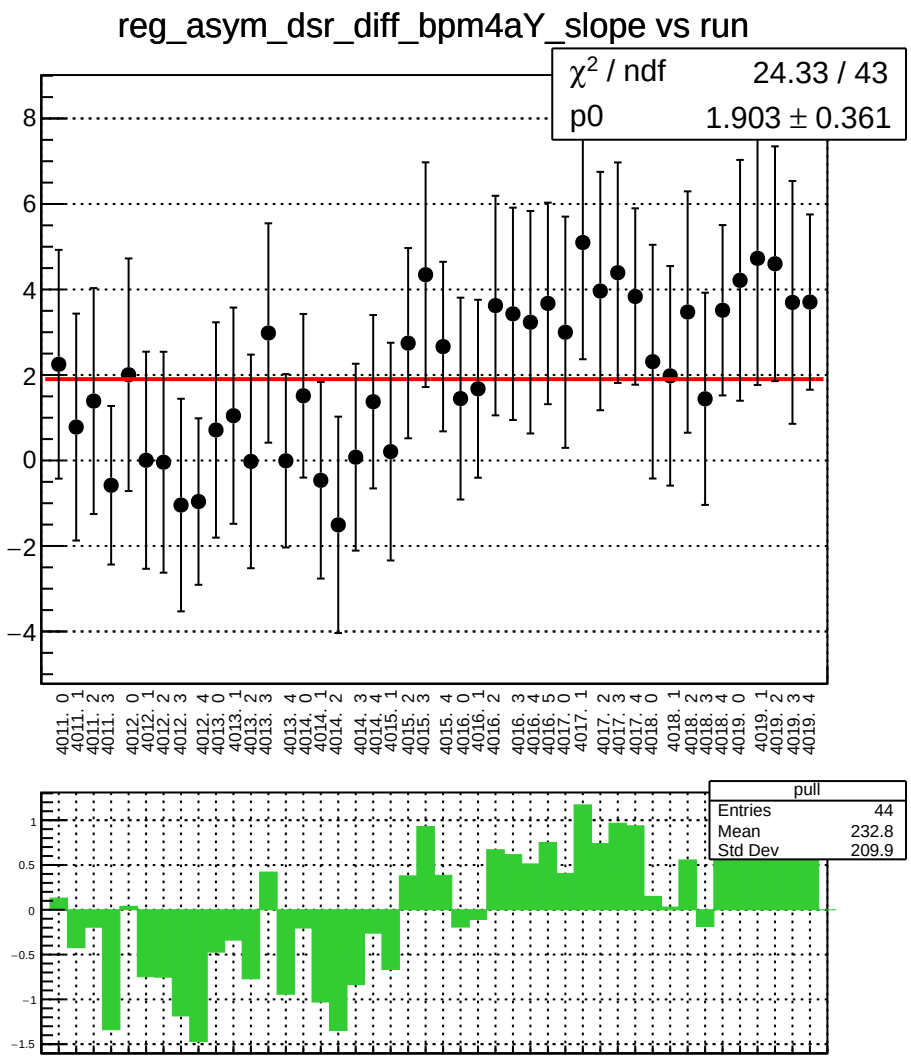

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 11.1 / 43
p0 11.18 ± 0.9046
pull
Entries 44
Mean −608.6
Std Dev 628

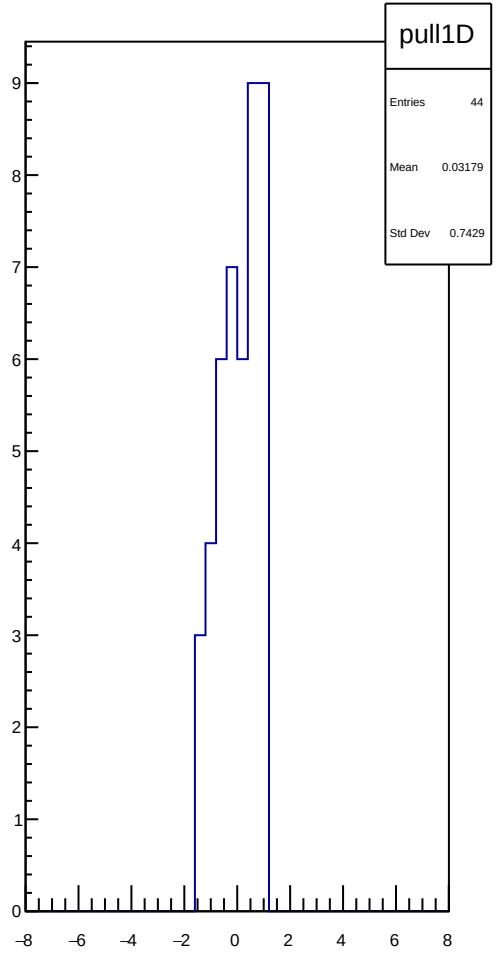

pull1D
Entries 44
Mean 0.003427
Std Dev 0.5023

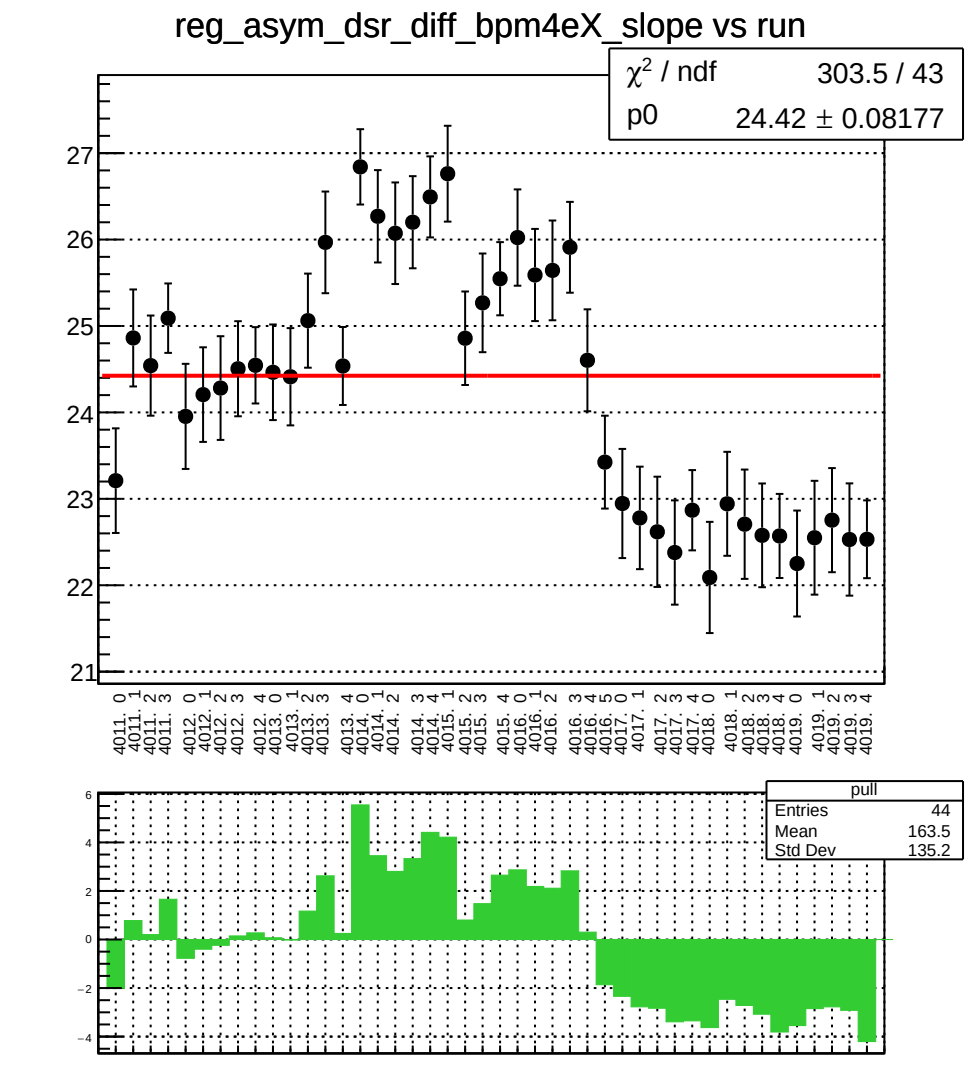

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 836.4 / 43
p0 −43.28 ± 0.1778
pull
Entries 44
Mean 145.3
Std Dev 108.4

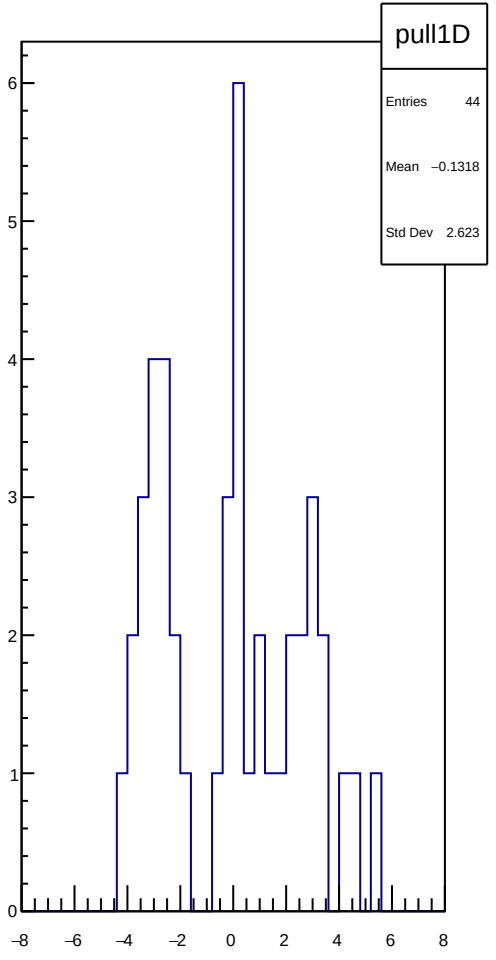

pull1D
Entries 44
Mean −1.379
Std Dev 2.697

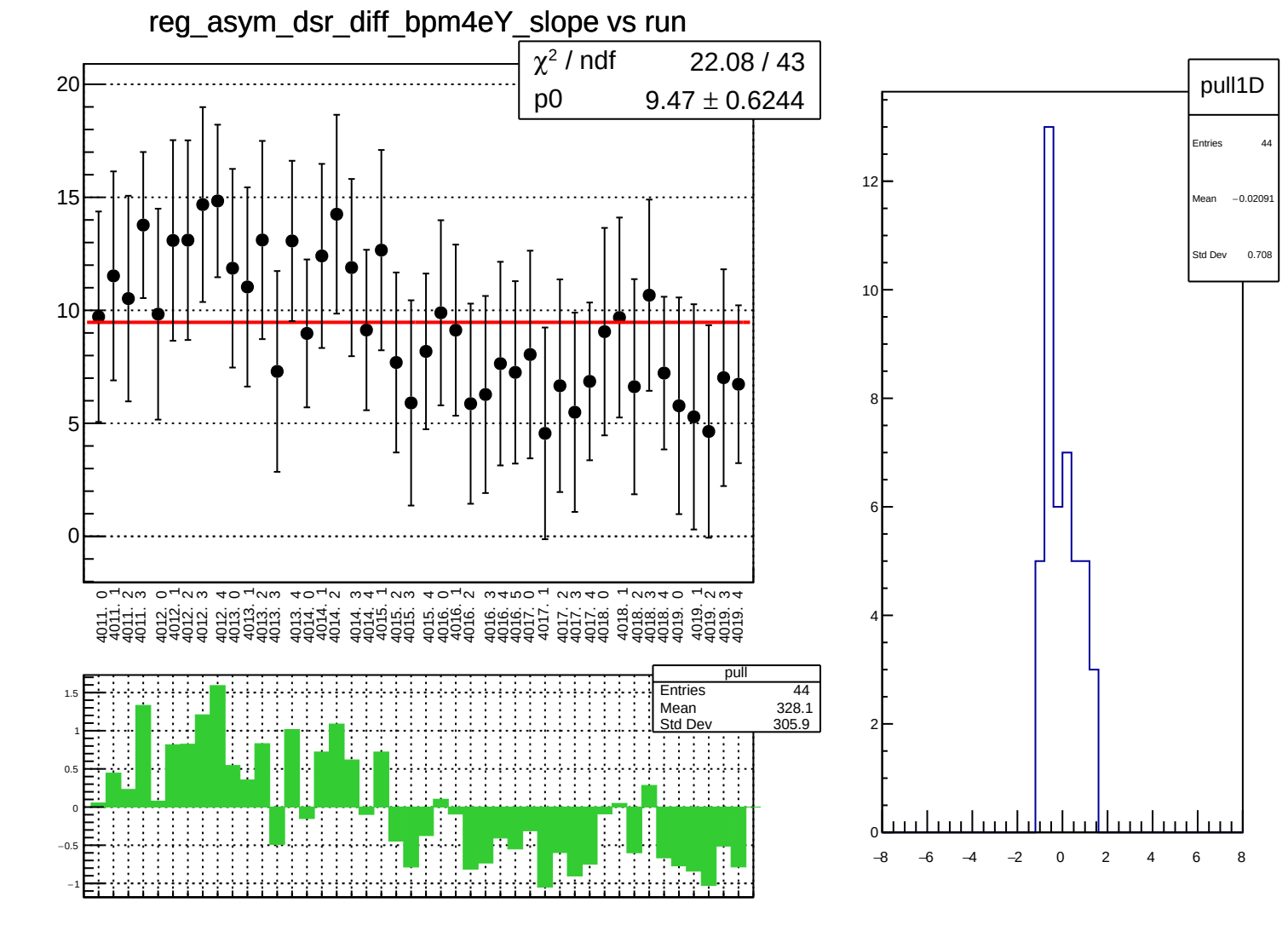

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 54.2 / 43
p0 −21.17 ± 0.5014
−10
−15
−20
−25
−30
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 419.1
Std Dev 383.7
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 44
Mean −0.006939
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

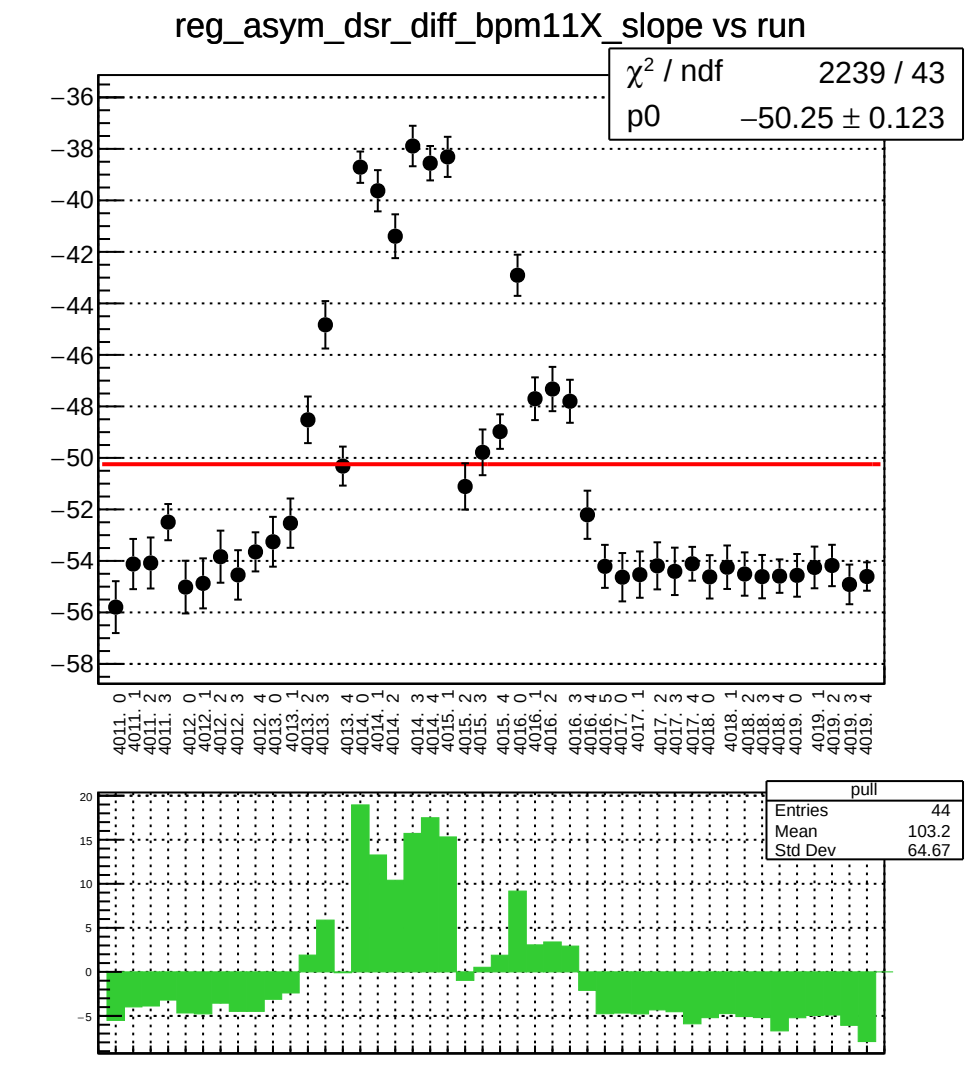

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 24.33 / 43
p0 1.903 ± 0.361
pull
Entries 44
Mean 232.8
Std Dev 209.9

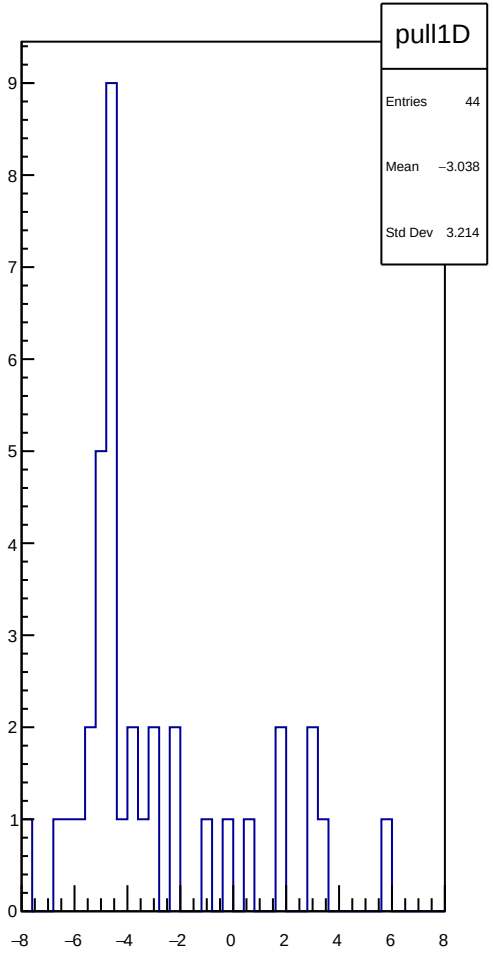

pull1D
Entries 44
Mean 0.03179
Std Dev 0.7429

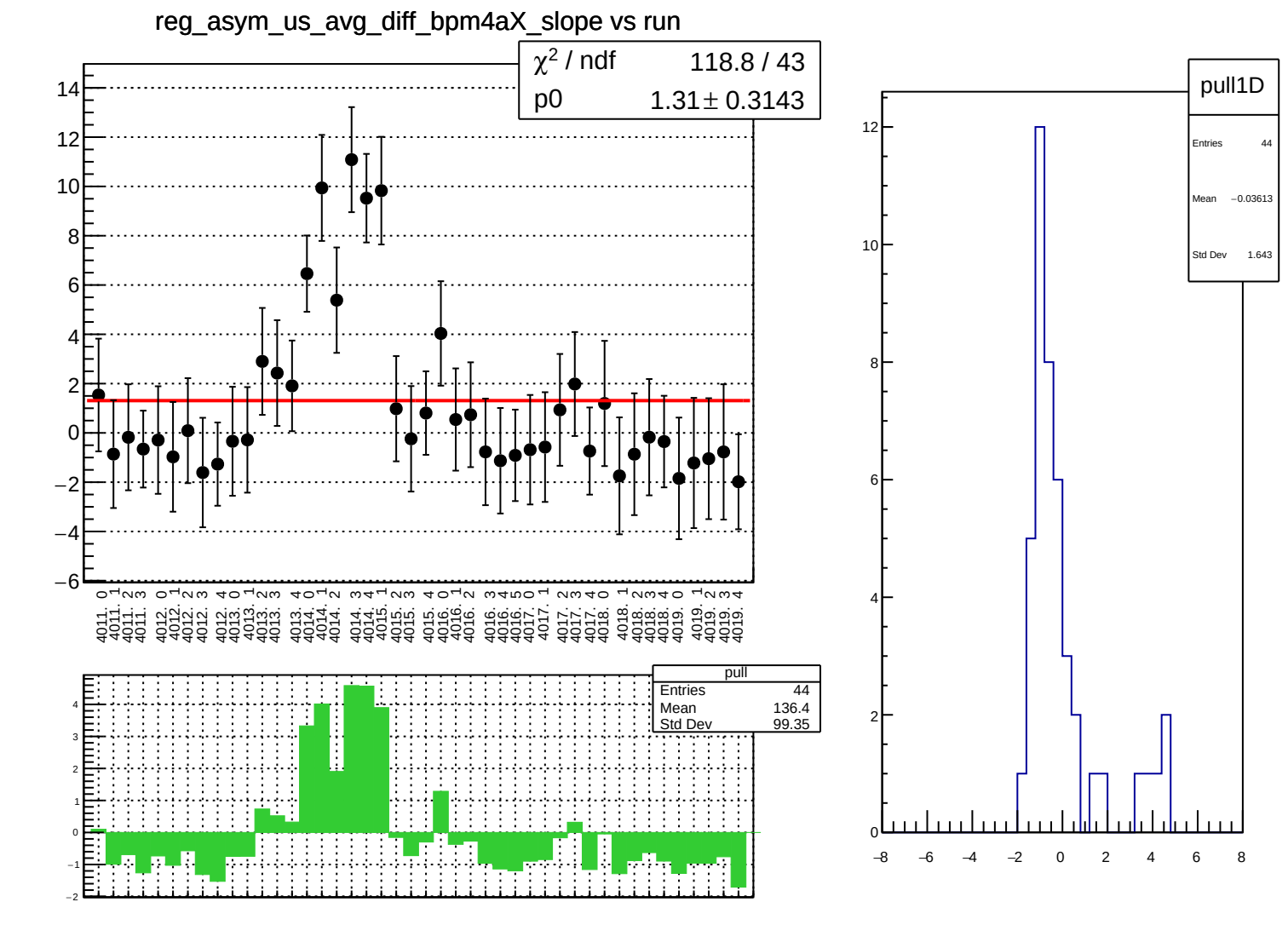

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 303.5 / 43
p0 24.42 ± 0.08177
pull
Entries 44
Mean 163.5
Std Dev 135.2

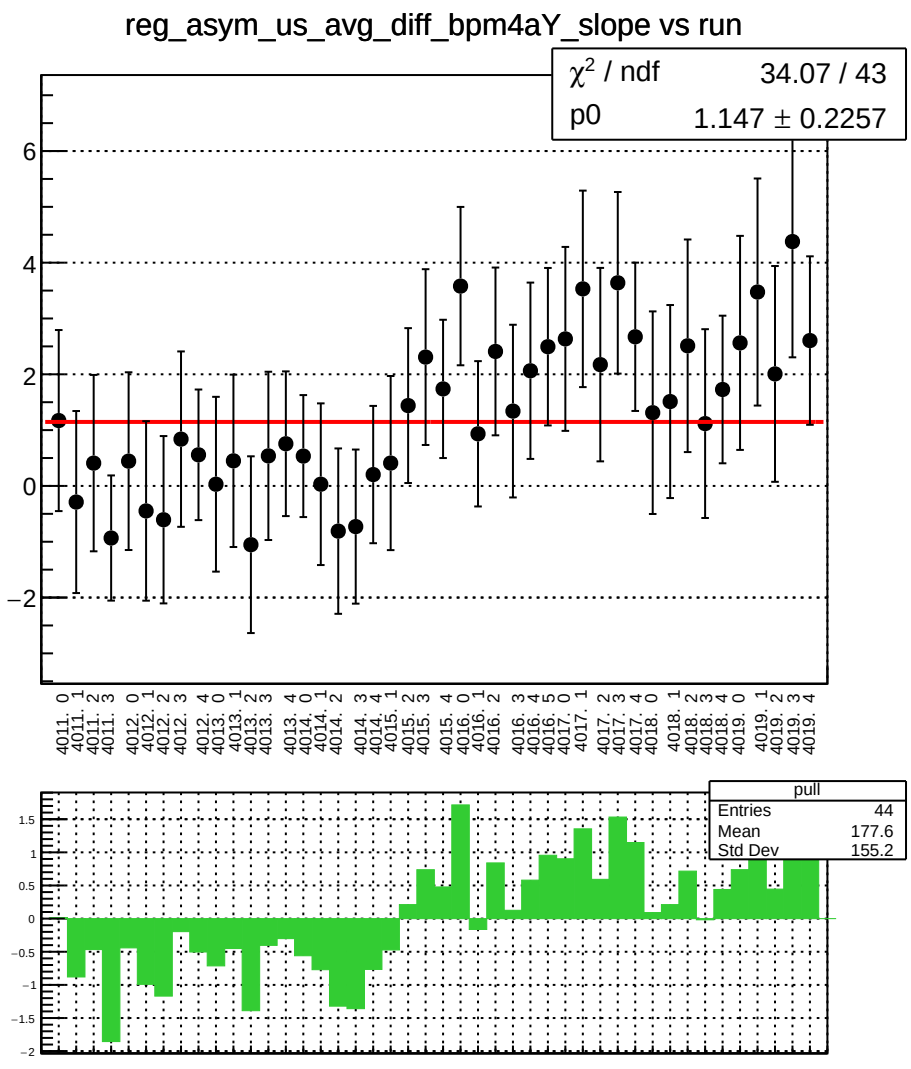

pull1D
Entries 44
Mean −0.1318
Std Dev 2.623

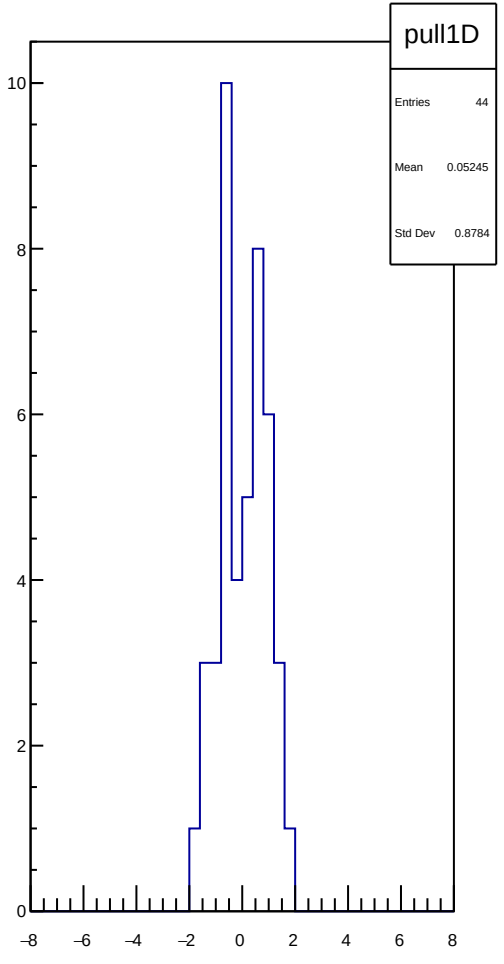

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 22.08 / 43
p0 9.47 ± 0.6244
pull
Entries 44
Mean 328.1
Std Dev 305.9
pull1D
Entries 44
Mean −0.02091
Std Dev 0.708

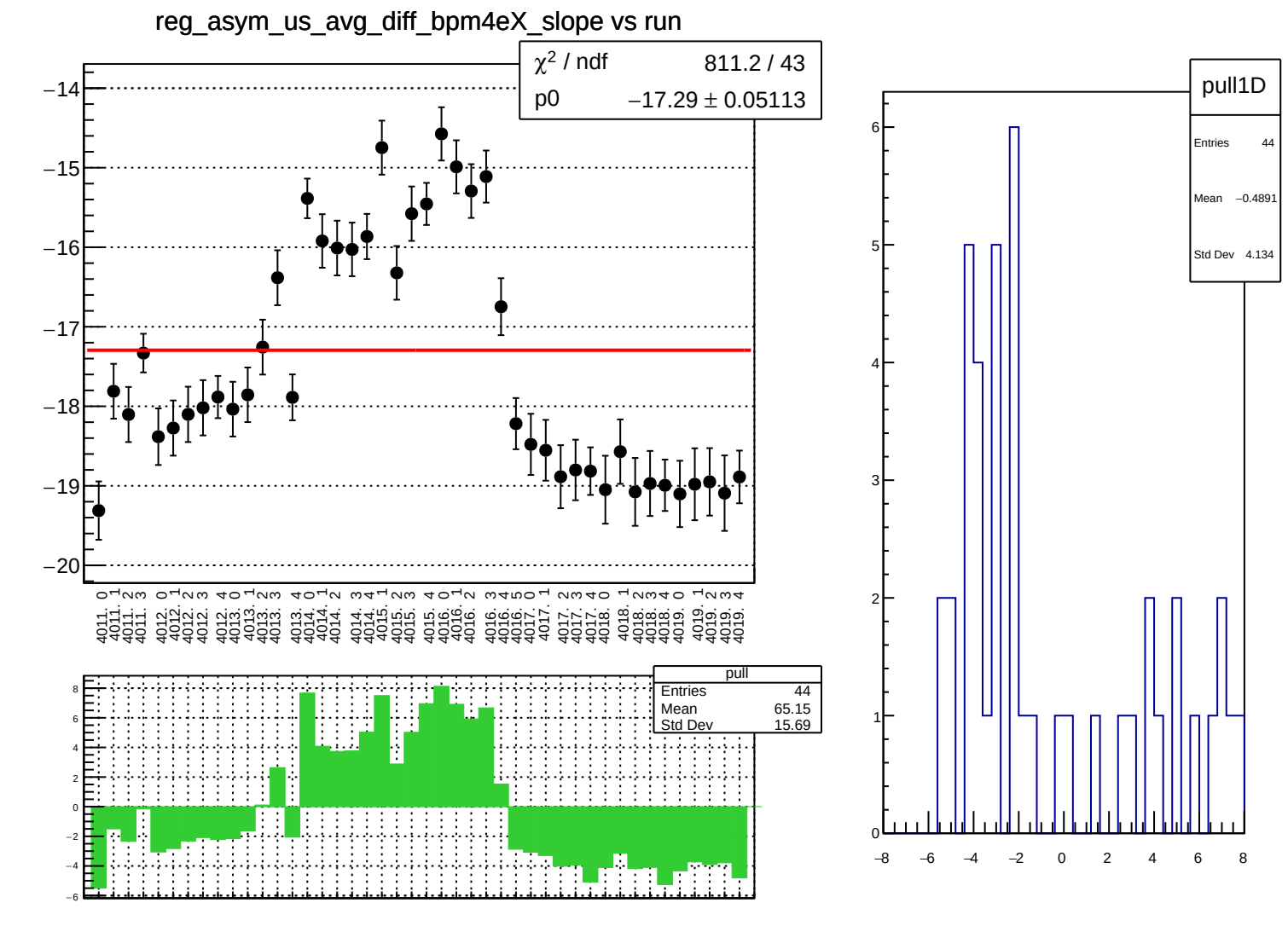

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 2239 / 43
p0 −50.25 ± 0.123
pull
Entries 44
Mean 103.2
Std Dev 64.67

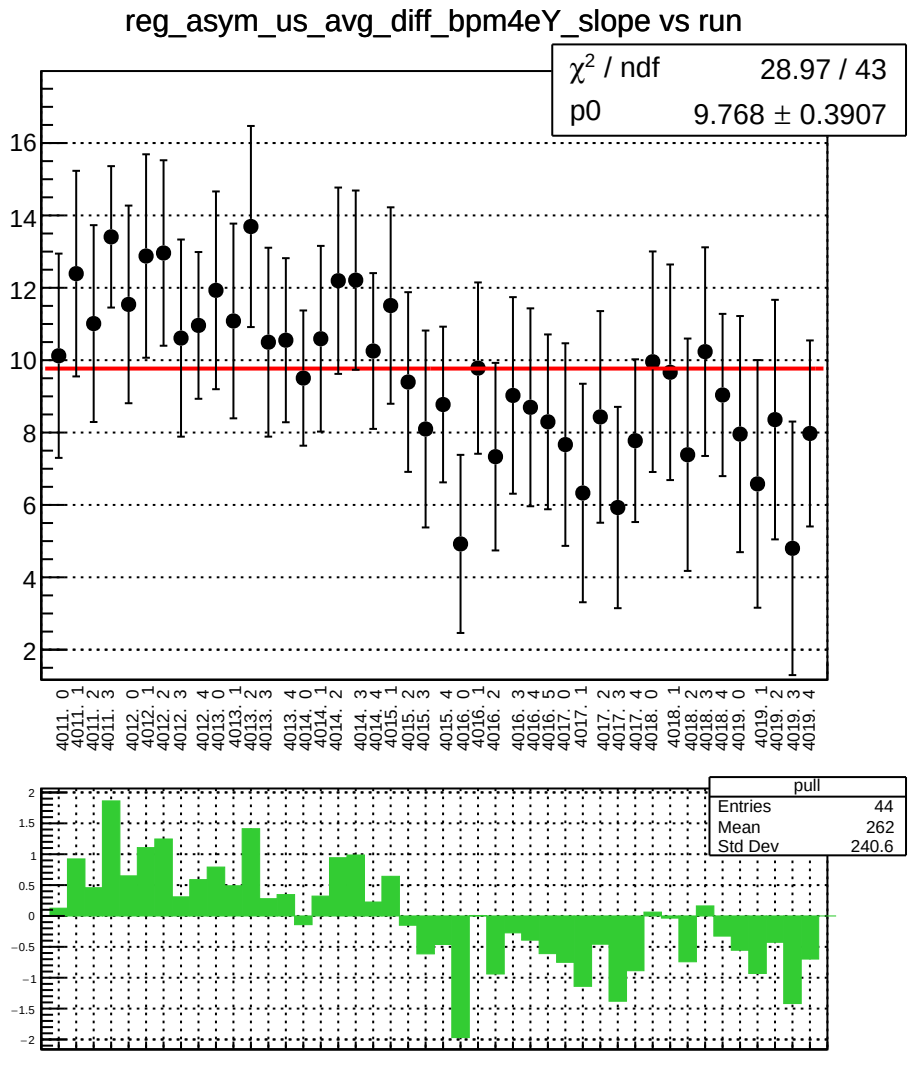

pull1D
Entries 44
Mean −3.038
Std Dev 3.214

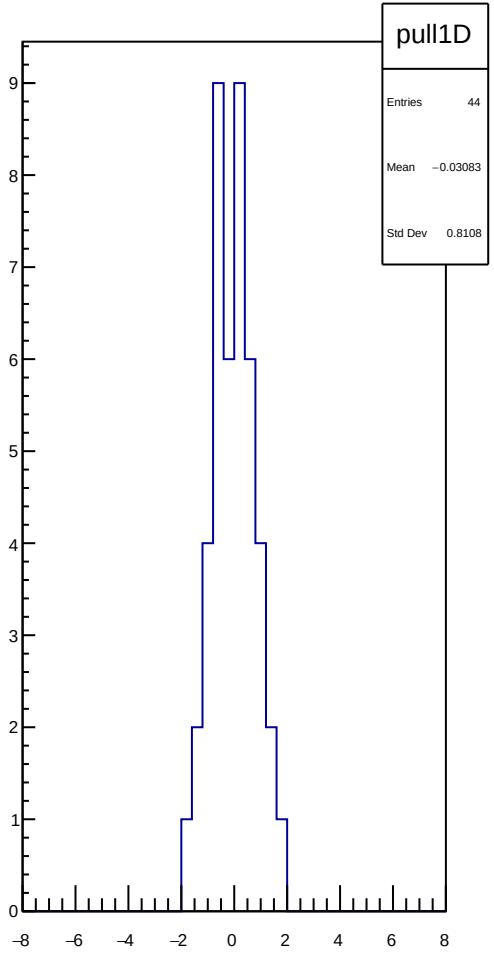

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 118.8 / 43
p0 1.31 ± 0.3143
pull
Entries 44
Mean 136.4
Std Dev 99.35
pull1D
Entries 44
Mean −0.03613
Std Dev 1.643

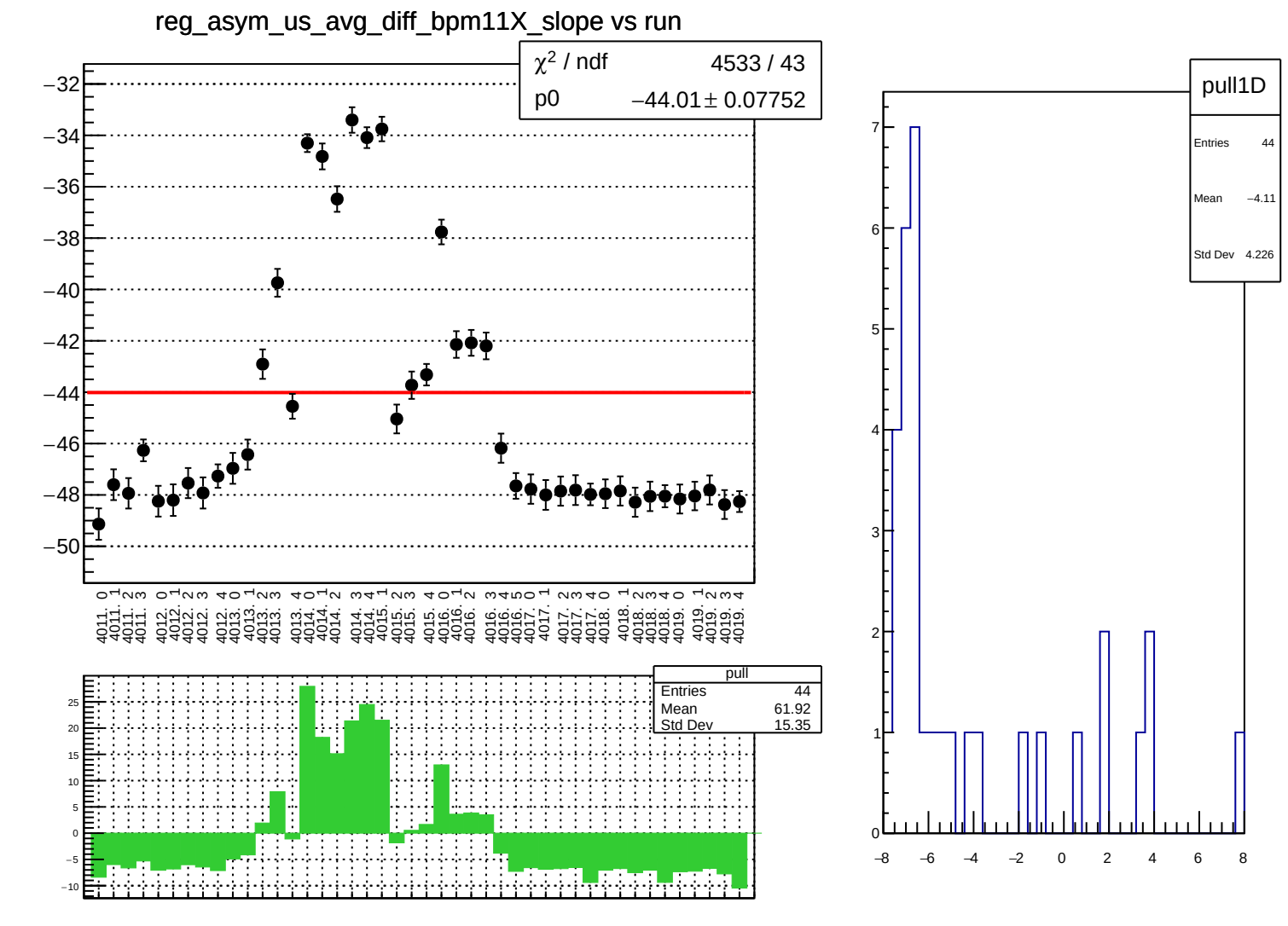

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.07 / 43
p0 1.147 ± 0.2257
pull
Entries 44
Mean 177.6
Std Dev 155.2

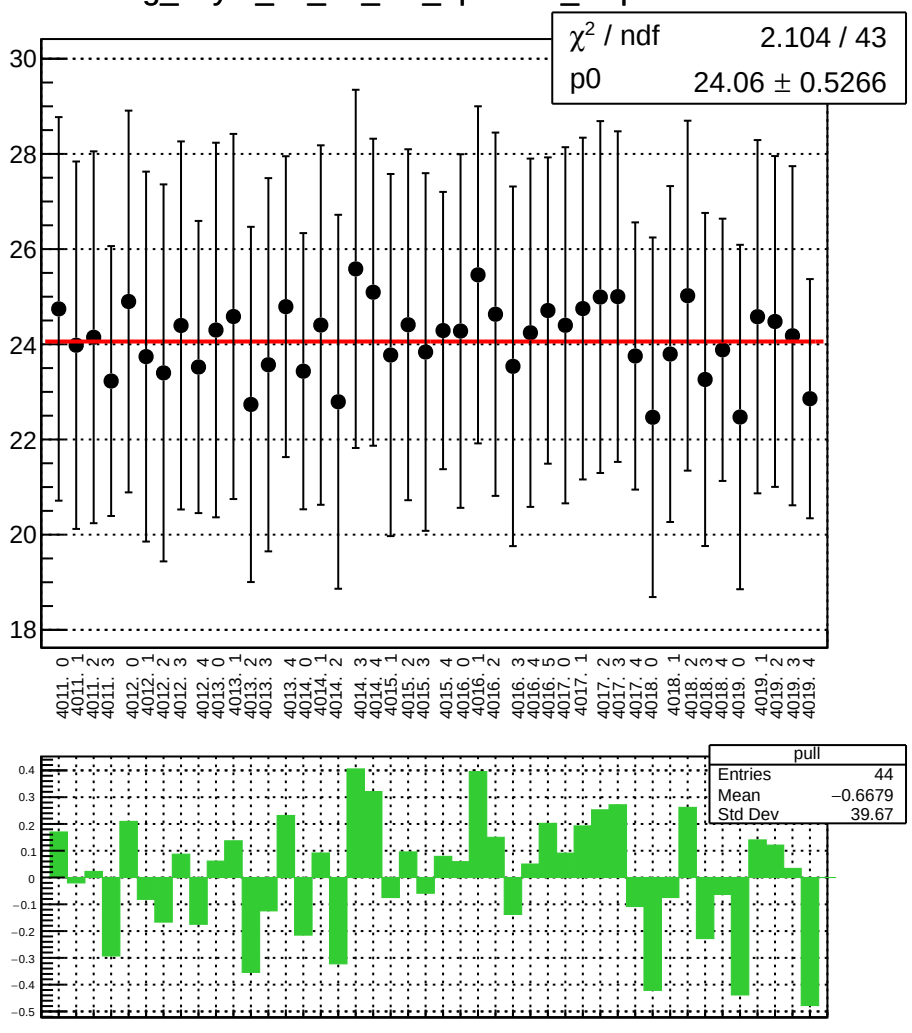

pull1D
Entries 44
Mean 0.05245
Std Dev 0.8784

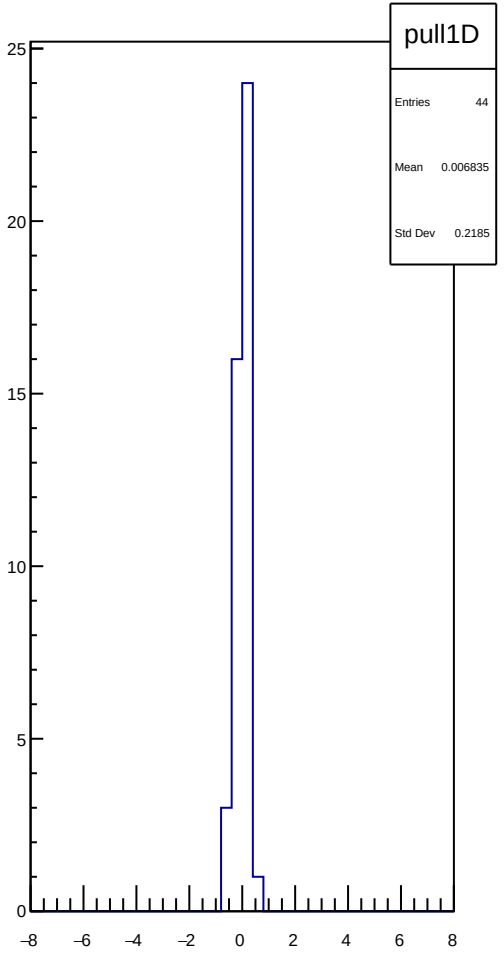

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 811.2 / 43
p0 −17.29 ± 0.05113
pull
Entries 44
Mean 65.15
Std Dev 15.69
pull1D
Entries 44
Mean −0.4891
Std Dev 4.134

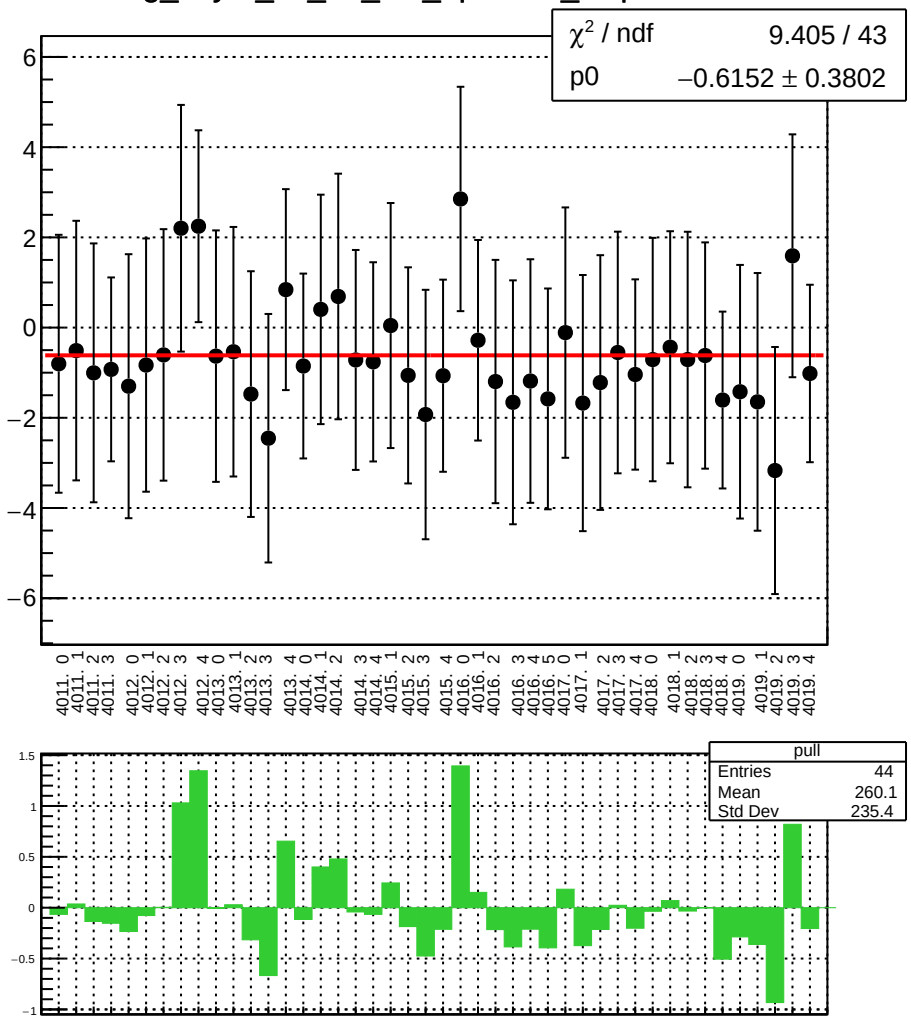

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.97 / 43
p0 9.768 ± 0.3907
pull
Entries 44
Mean 262
Std Dev 240.6

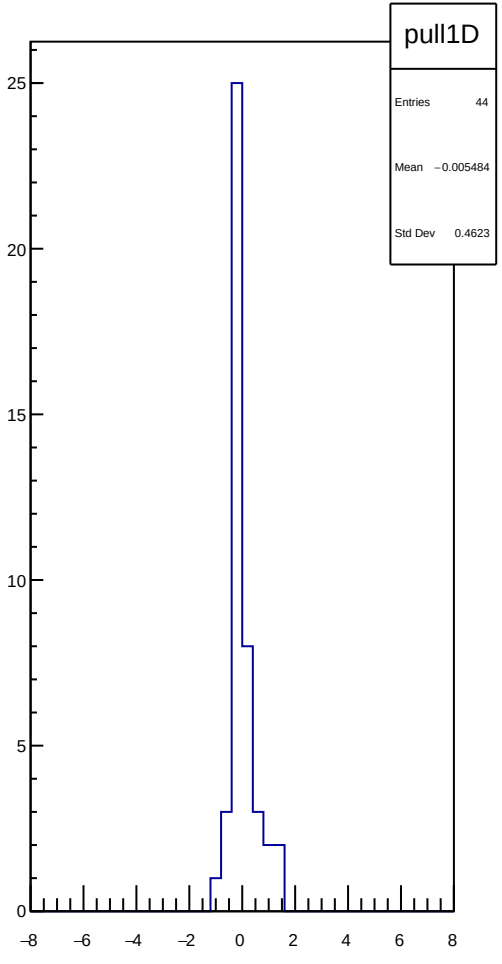

pull1D
Entries 44
Mean −0.03083
Std Dev 0.8108

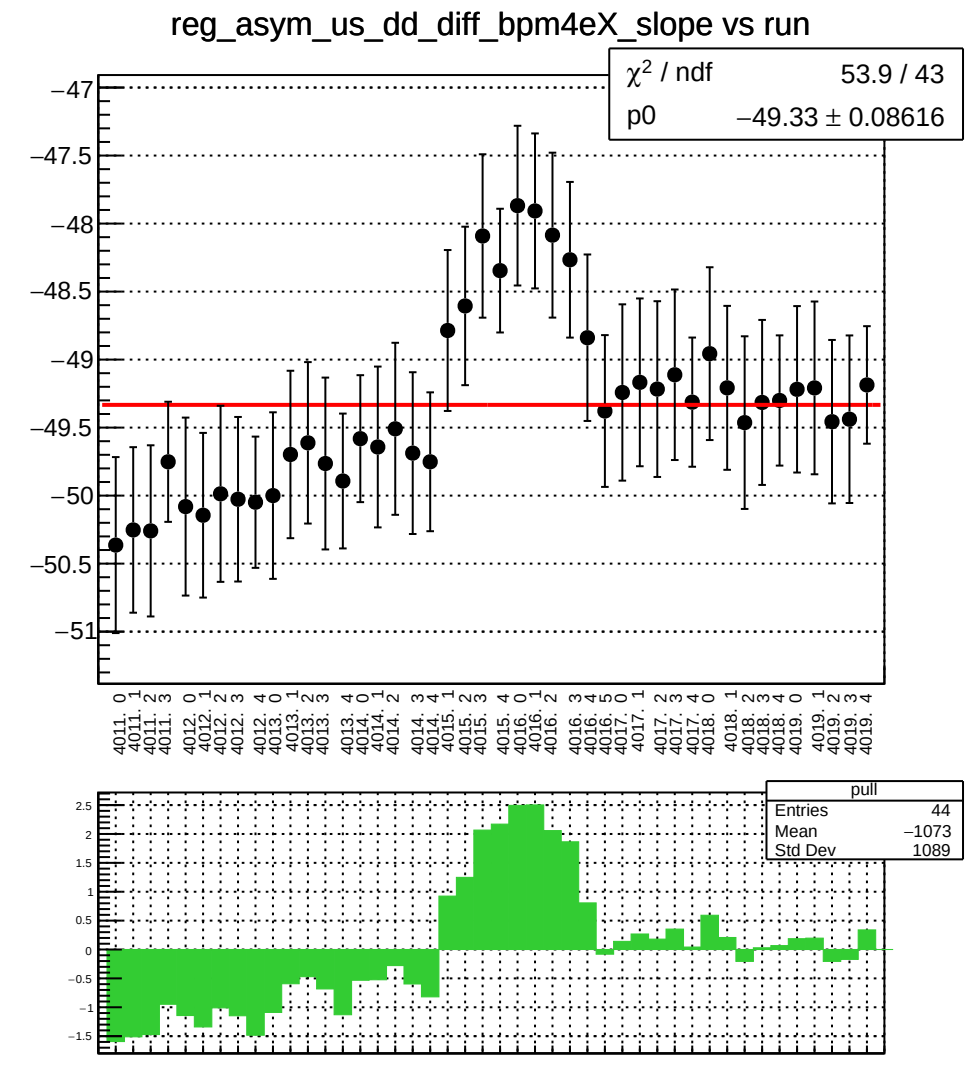

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 4533 / 43
p0 −44.01 ± 0.07752
pull
Entries 44
Mean 61.92
Std Dev 15.35
pull1D
Entries 44
Mean −4.11
Std Dev 4.226

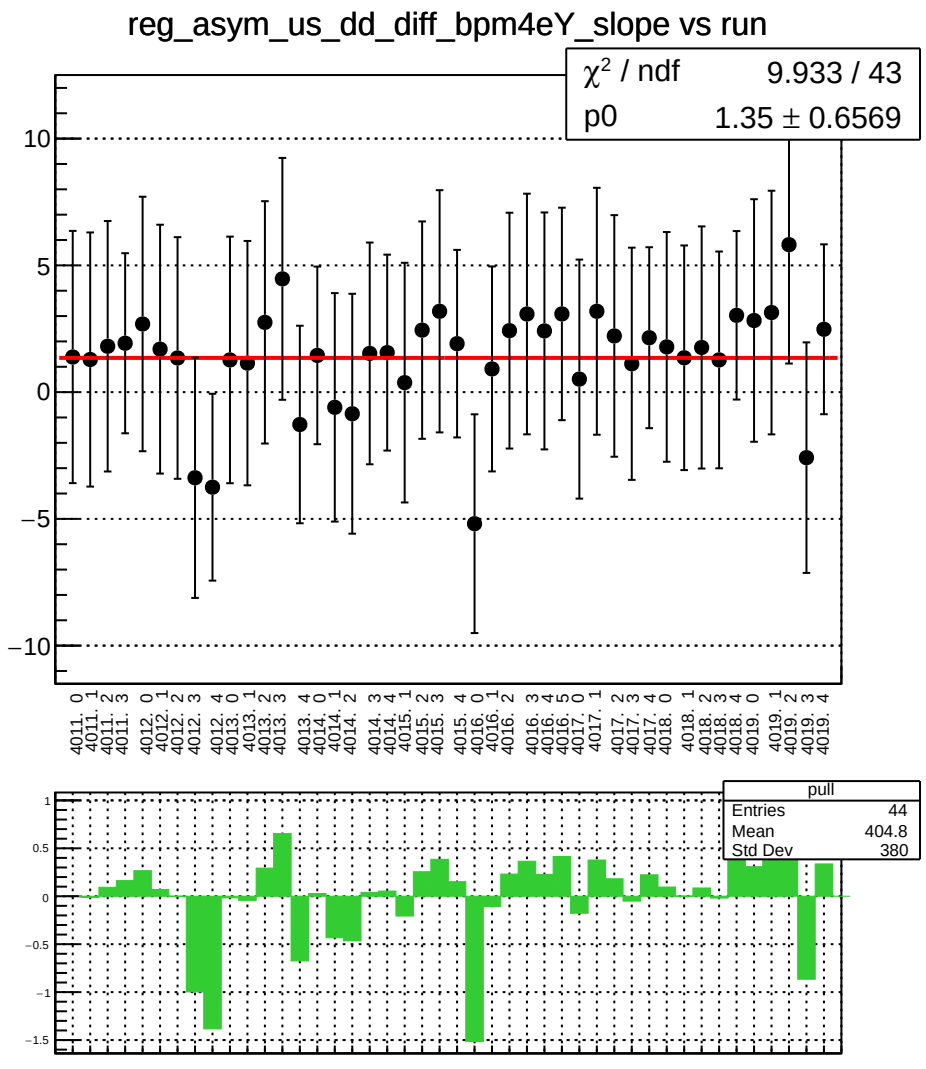

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.104 / 43
p0 24.06 ± 0.5266
pull
Entries 44
Mean −0.6679
Std Dev 39.67

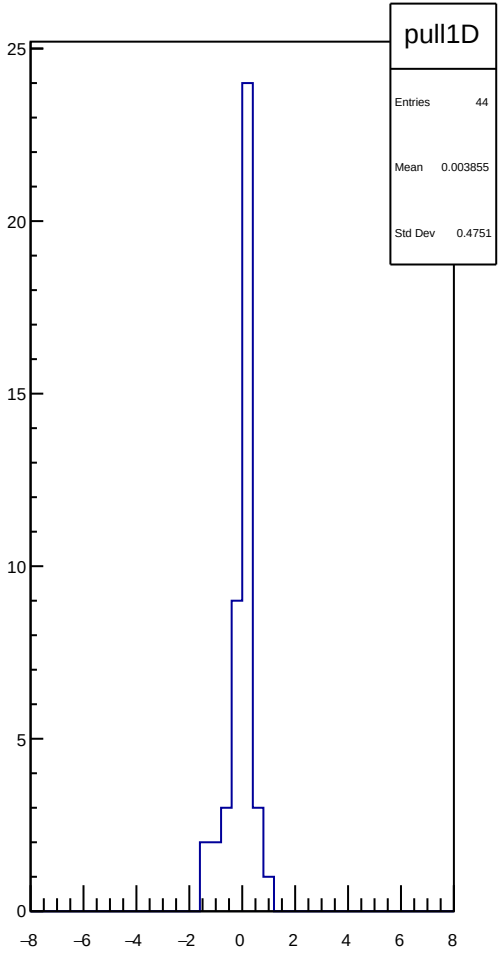

pull1D
Entries 44
Mean 0.006835
Std Dev 0.2185

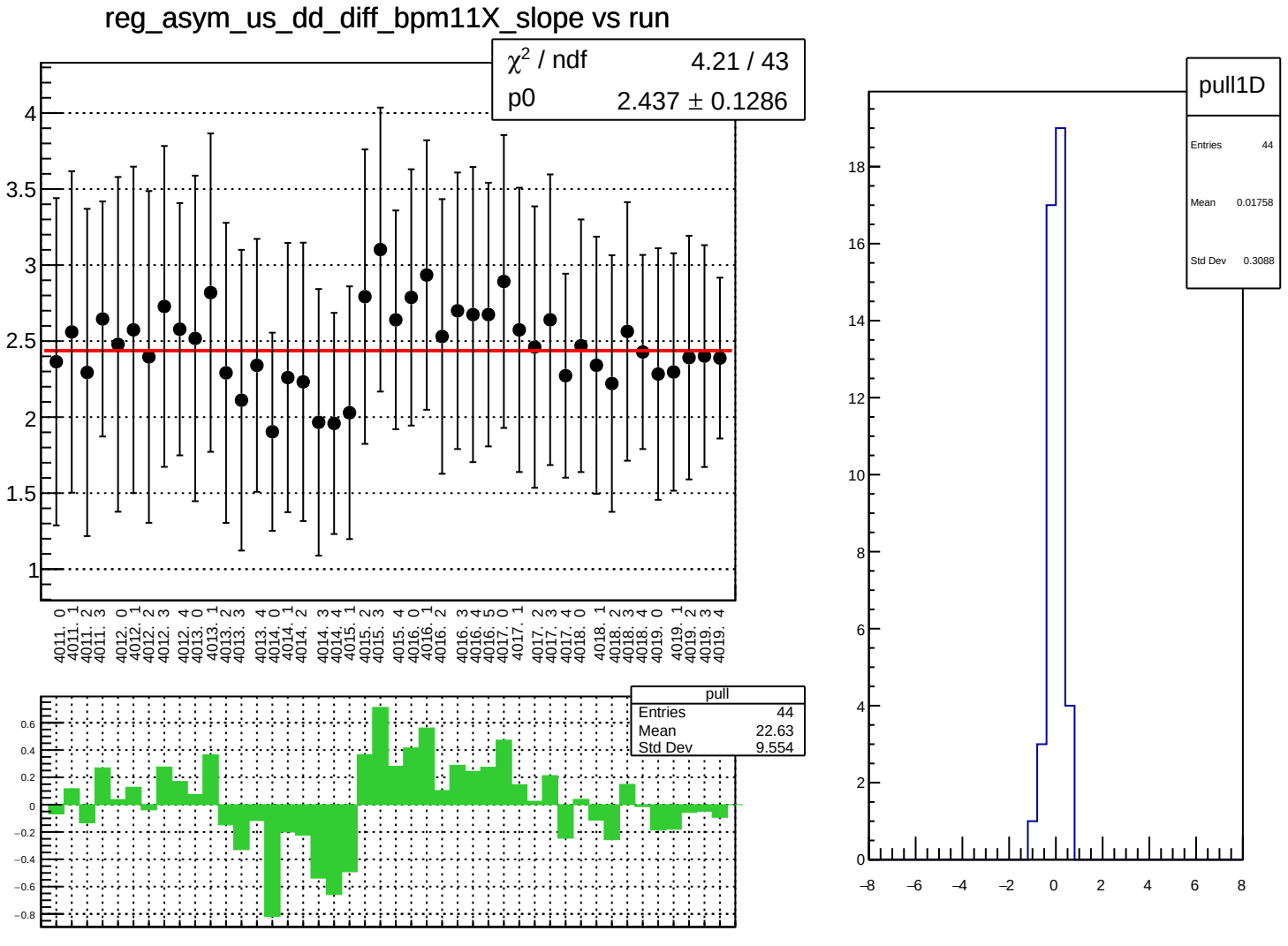

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.405 / 43
p0 −0.6152 ± 0.3802
pull
Entries 44
Mean 260.1
Std Dev 235.4

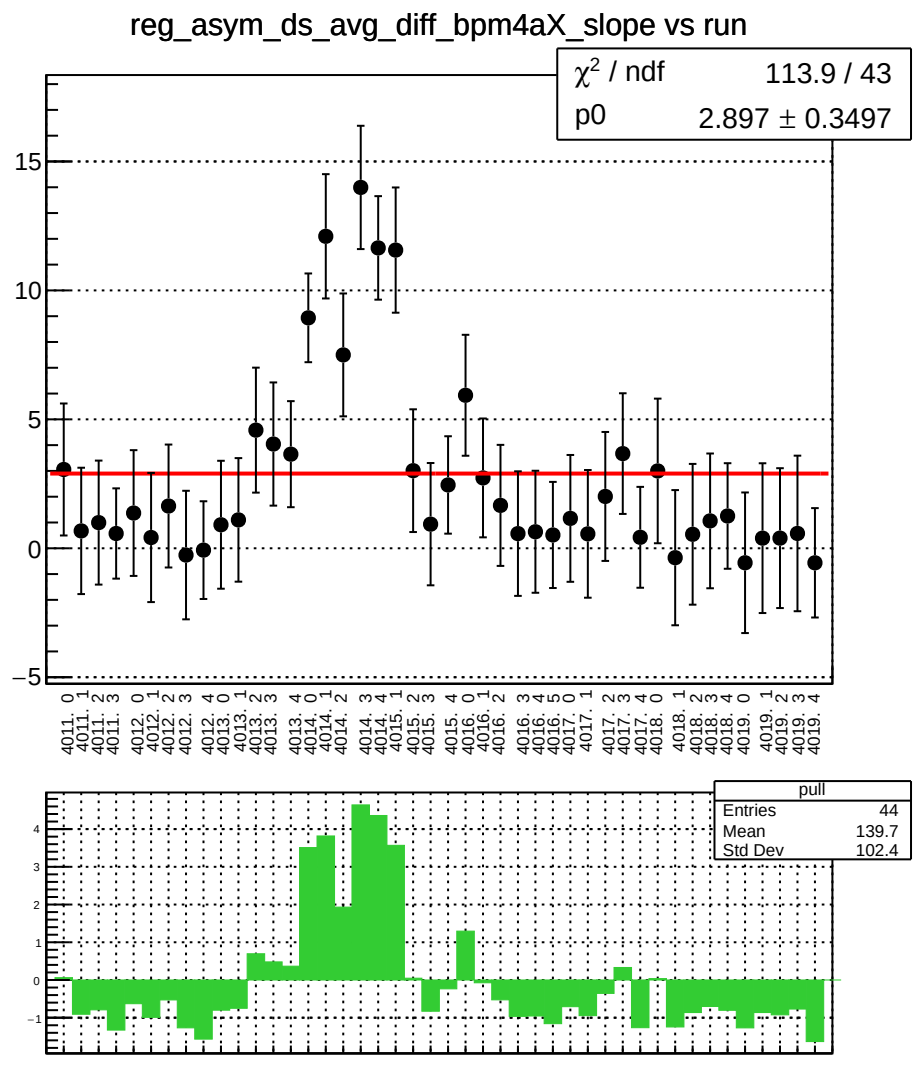

pull1D
Entries 44
Mean −0.005484
Std Dev 0.4623

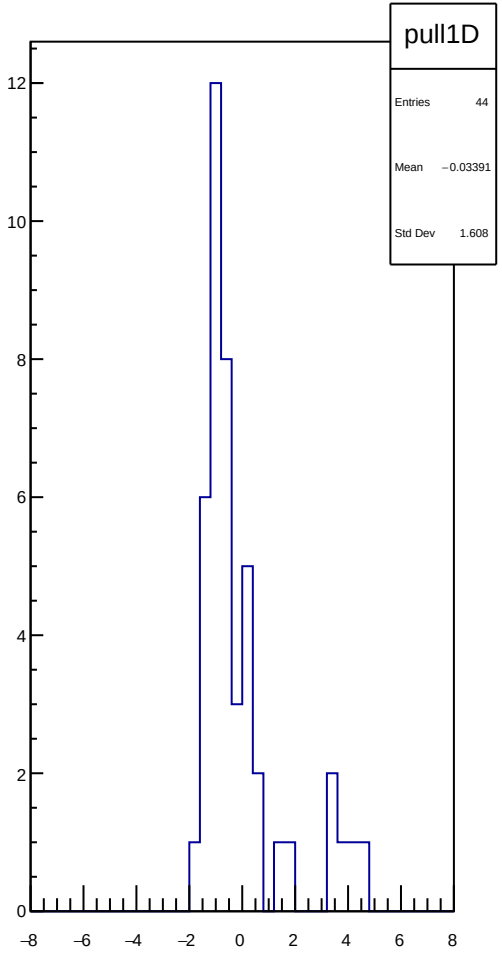

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 53.9 / 43
p0 −49.33 ± 0.08616
pull
Entries 44
Mean −1073
Std Dev 1089
pull1D
Entries 44
Mean −0.006476
Std Dev 1.107

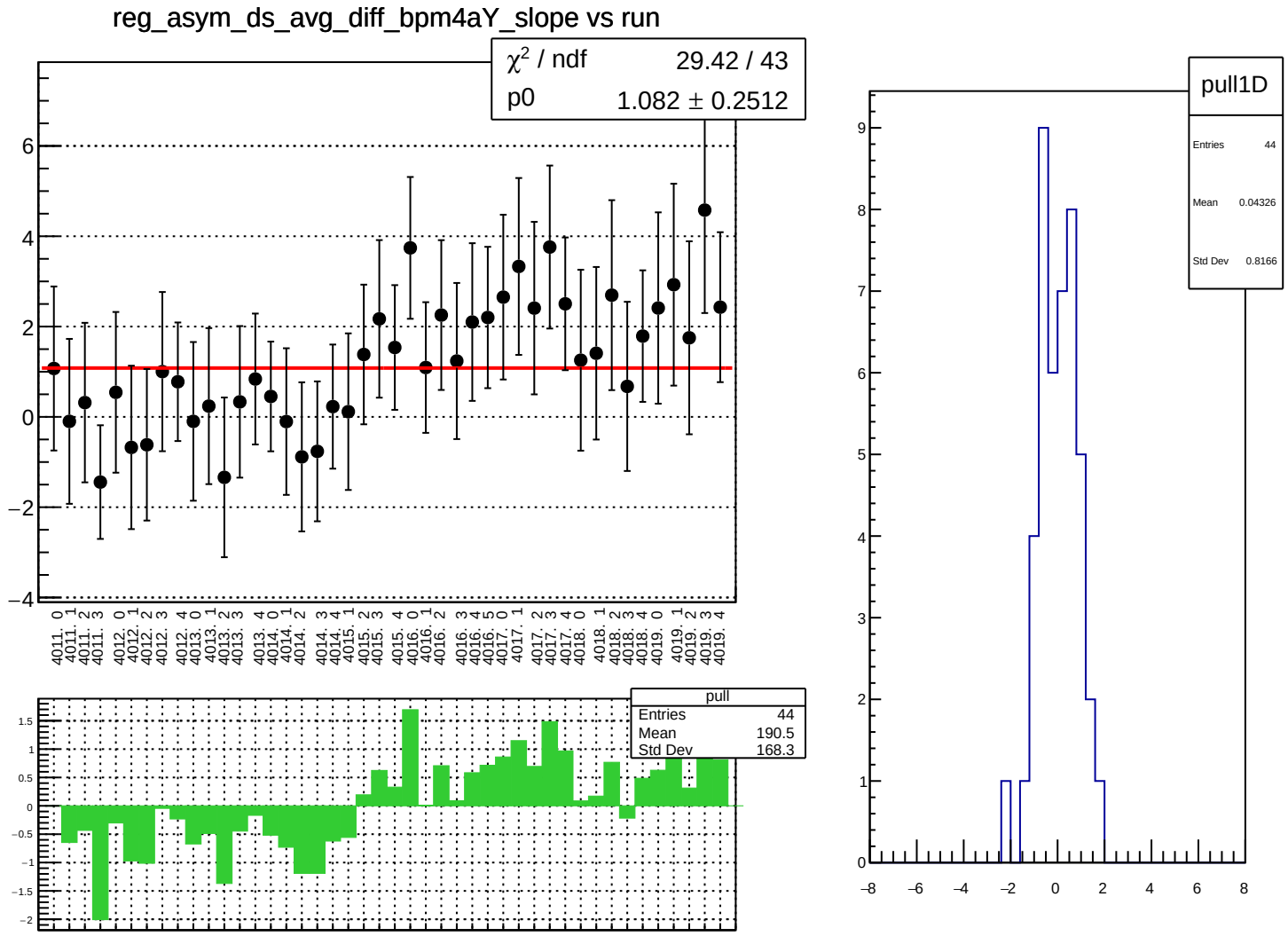

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.933 / 43
p0 1.35 ± 0.6569
10
5
0
−5
−10
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 404.8
Std Dev 380
1
0.5
0
−0.5
−1
−1.5

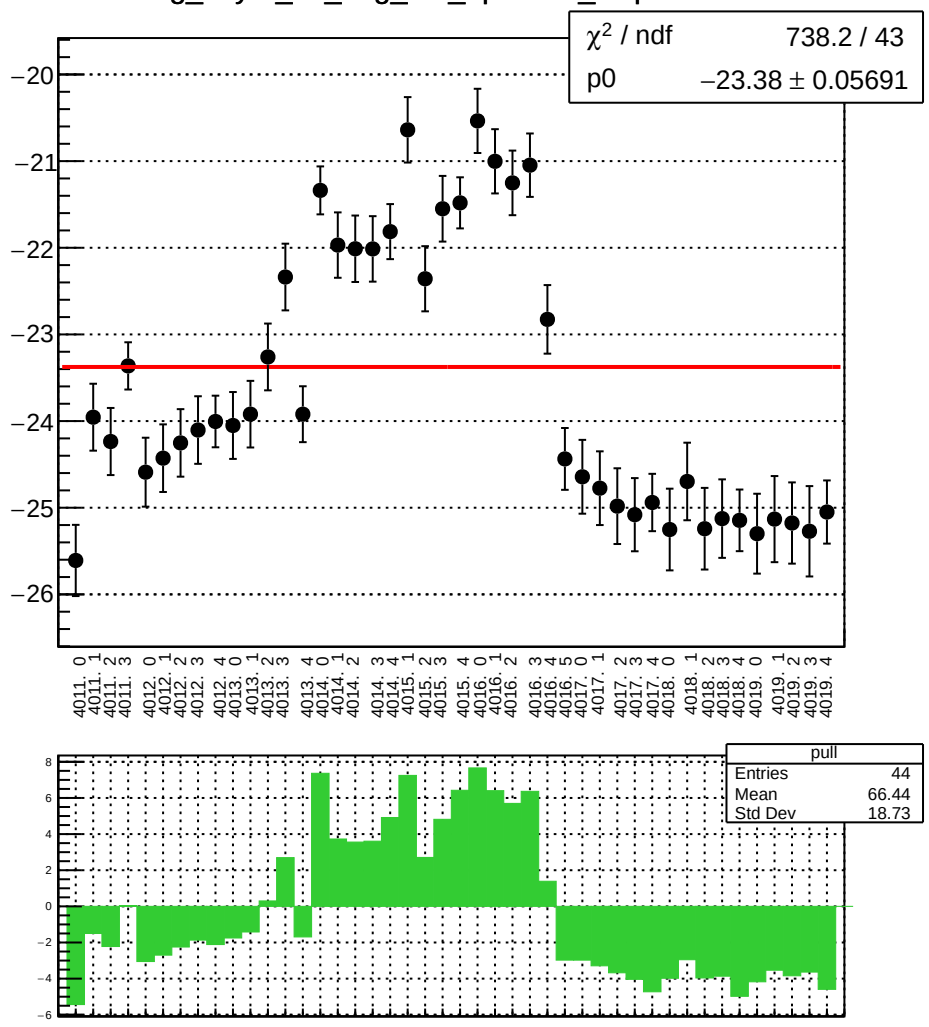

pull1D
Entries 44
Mean 0.003855
Std Dev 0.4751
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

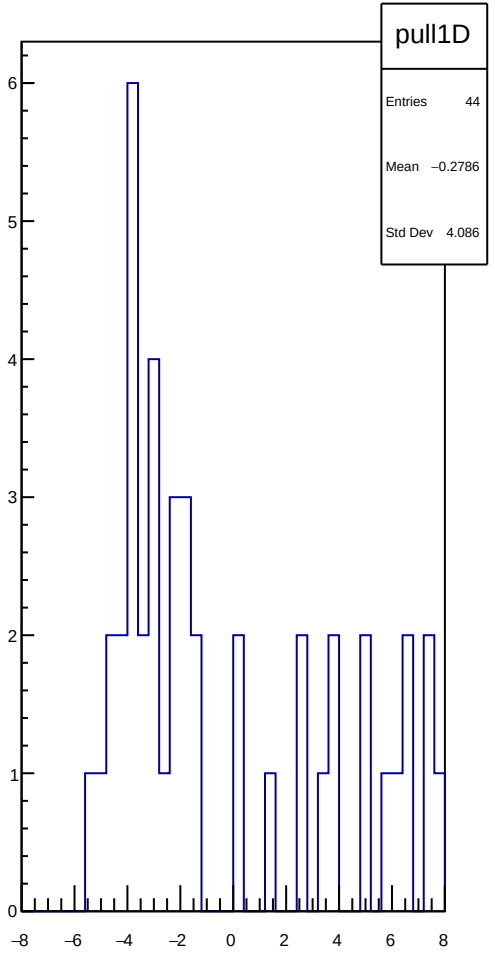

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 4.21 / 43
p0 2.437 ± 0.1286
pull
Entries 44
Mean 22.63
Std Dev 9.554
pull1D
Entries 44
Mean 0.01758
Std Dev 0.3088

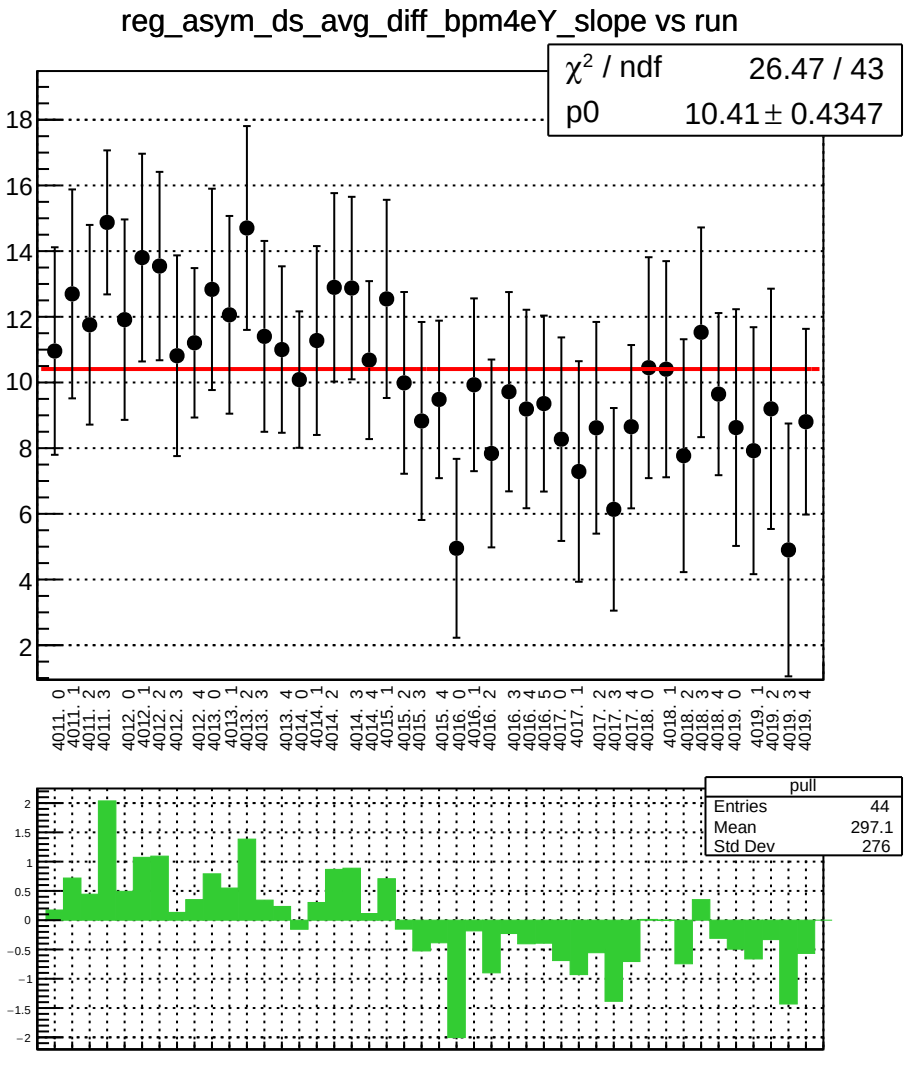

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 113.9 / 43
p0 2.897 ± 0.3497
pull
Entries 44
Mean 139.7
Std Dev 102.4

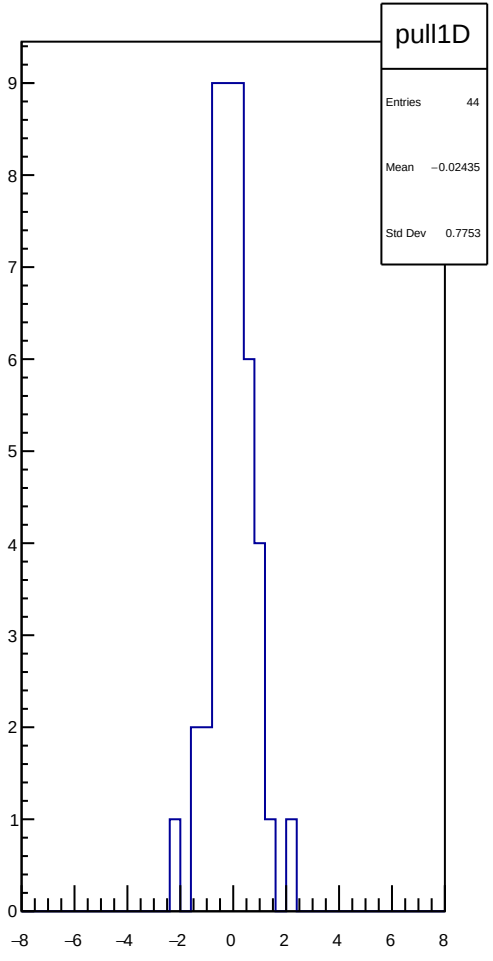

pull1D
Entries 44
Mean −0.03391
Std Dev 1.608

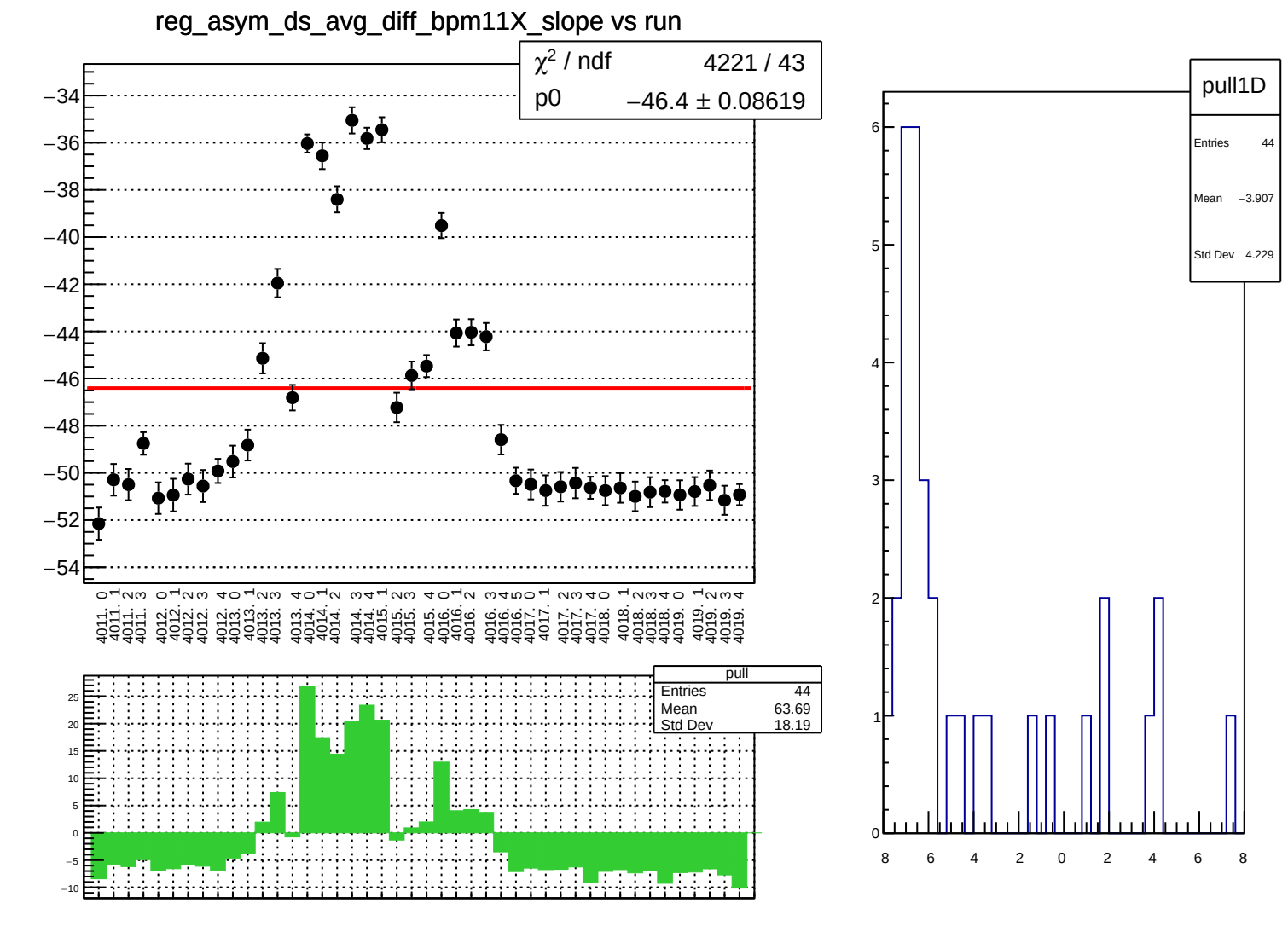

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.42 / 43
p0 1.082 ± 0.2512
pull
Entries 44
Mean 190.5
Std Dev 168.3
pull1D
Entries 44
Mean 0.04326
Std Dev 0.8166

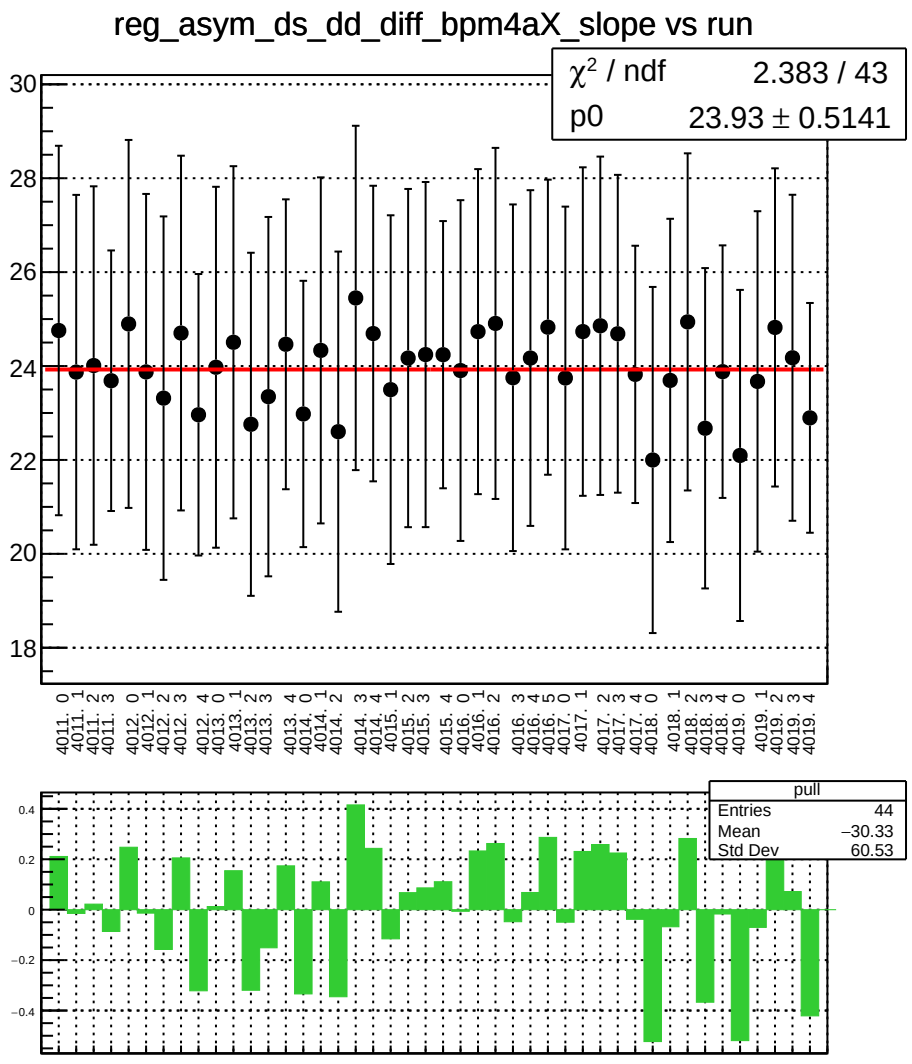

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 738.2 / 43
p0 −23.38 ± 0.05691
pull
Entries 44
Mean 66.44
Std Dev 18.73

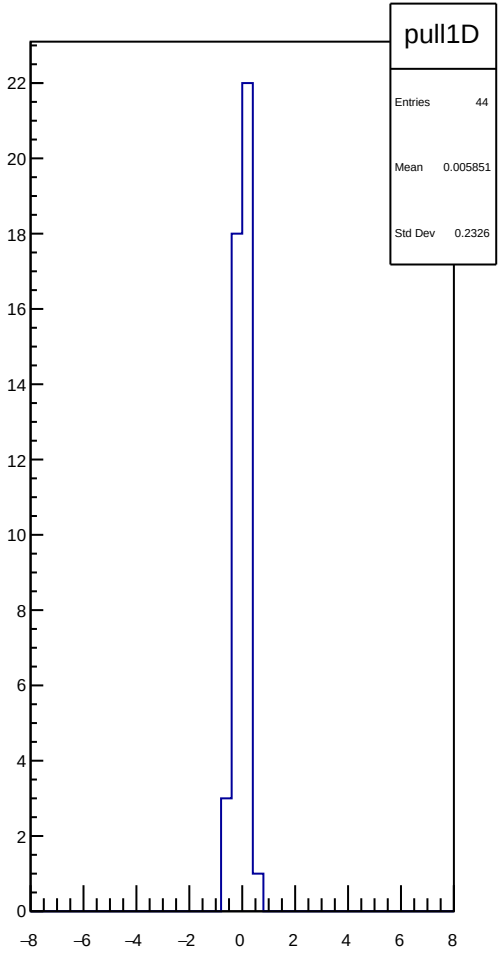

pull1D
Entries 44
Mean −0.2786
Std Dev 4.086

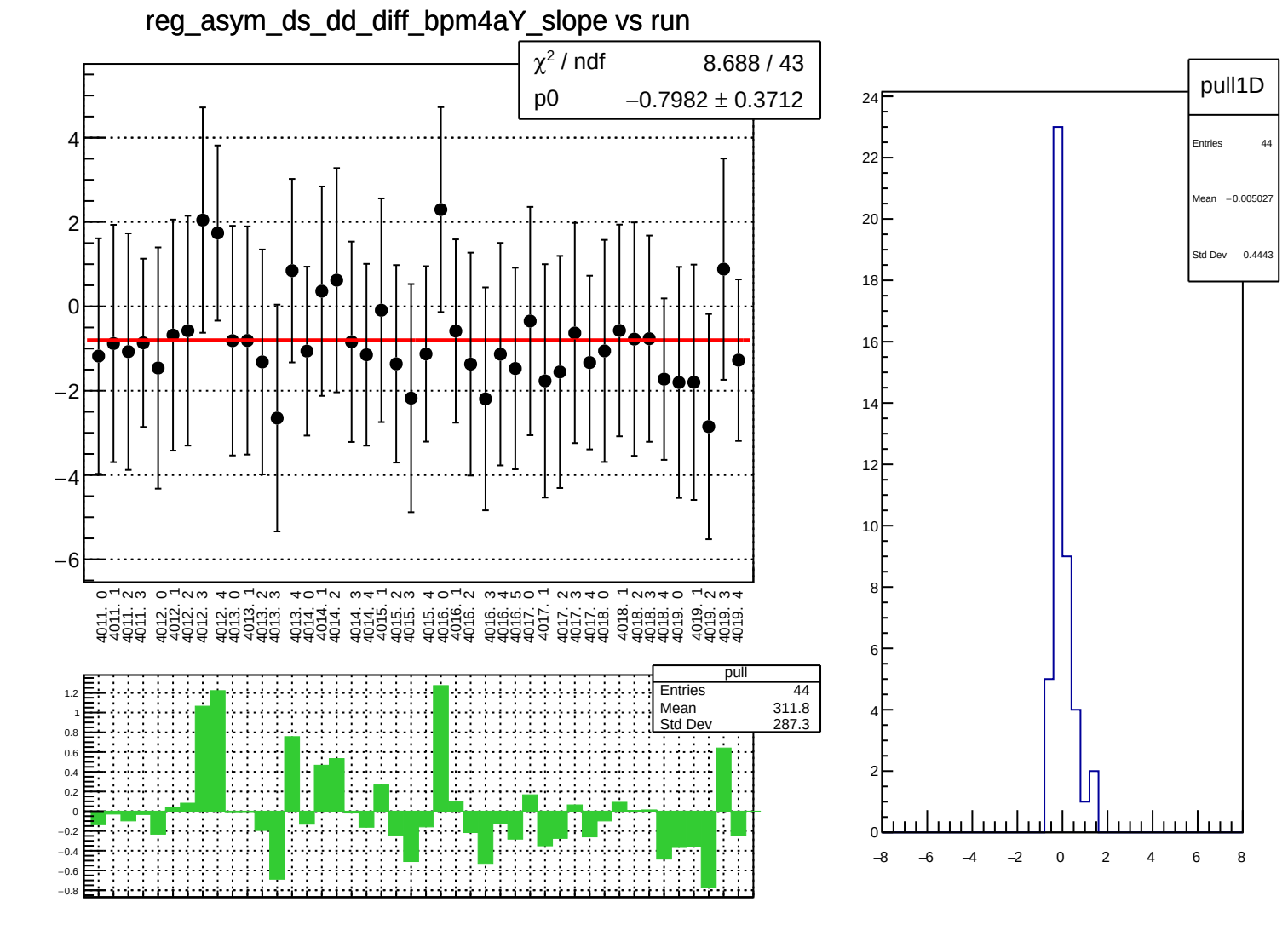

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.47 / 43
p0 10.41 ± 0.4347
pull
Entries 44
Mean 297.1
Std Dev 276

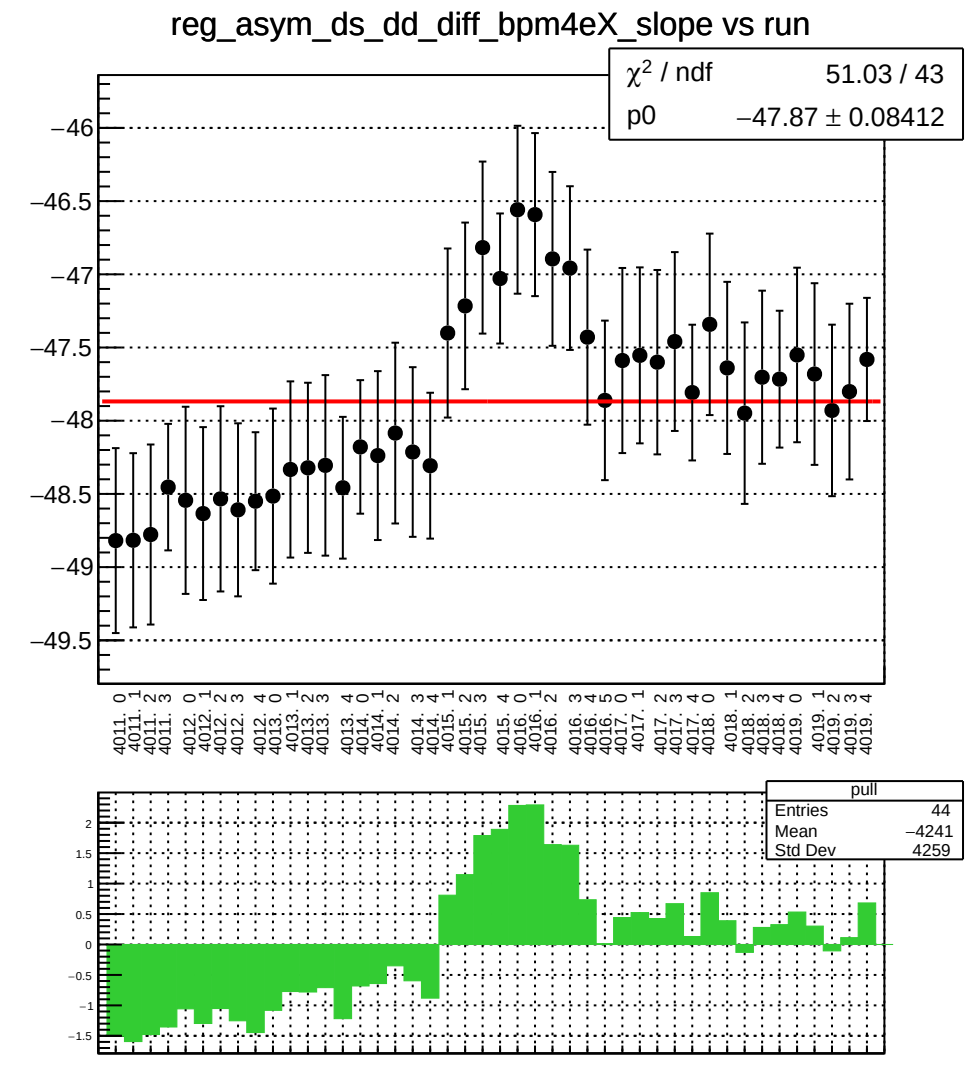

pull1D
Entries 44
Mean −0.02435
Std Dev 0.7753

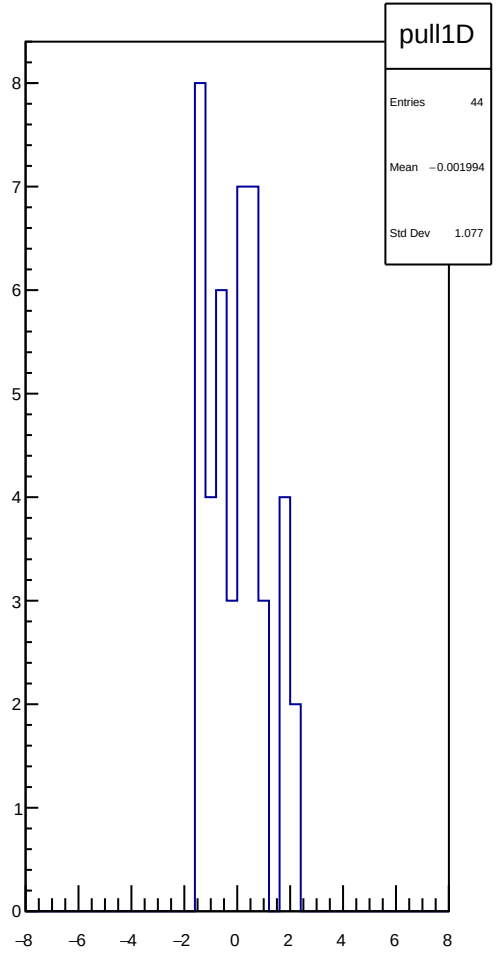

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 4221 / 43
p0 −46.4 ± 0.08619
pull
Entries 44
Mean 63.69
Std Dev 18.19
pull1D
Entries 44
Mean −3.907
Std Dev 4.229

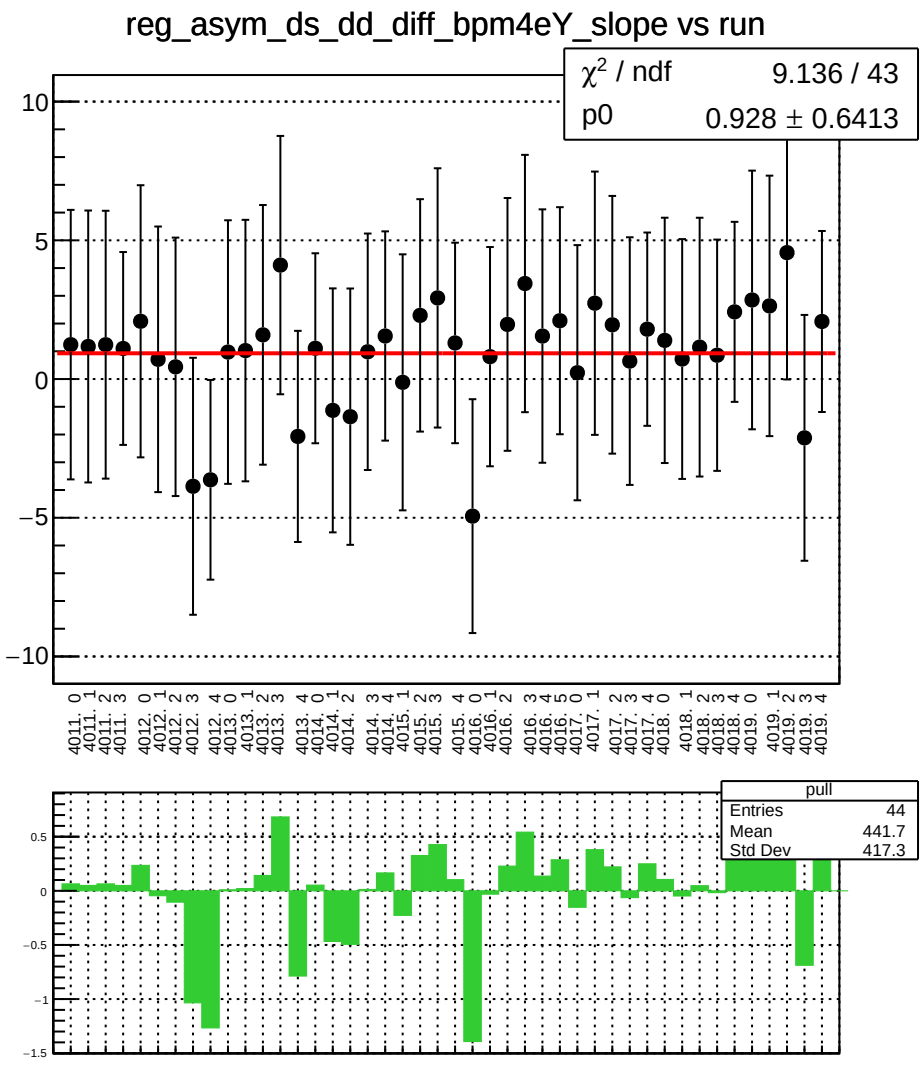

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.383 / 43
p0 23.93 ± 0.5141
pull
Entries 44
Mean −30.33
Std Dev 60.53

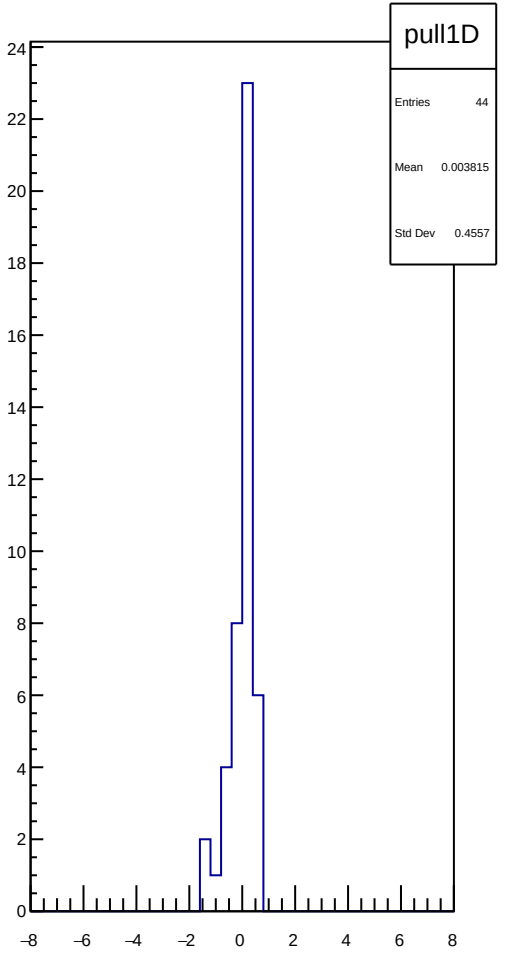

pull1D
Entries 44
Mean 0.005851
Std Dev 0.2326

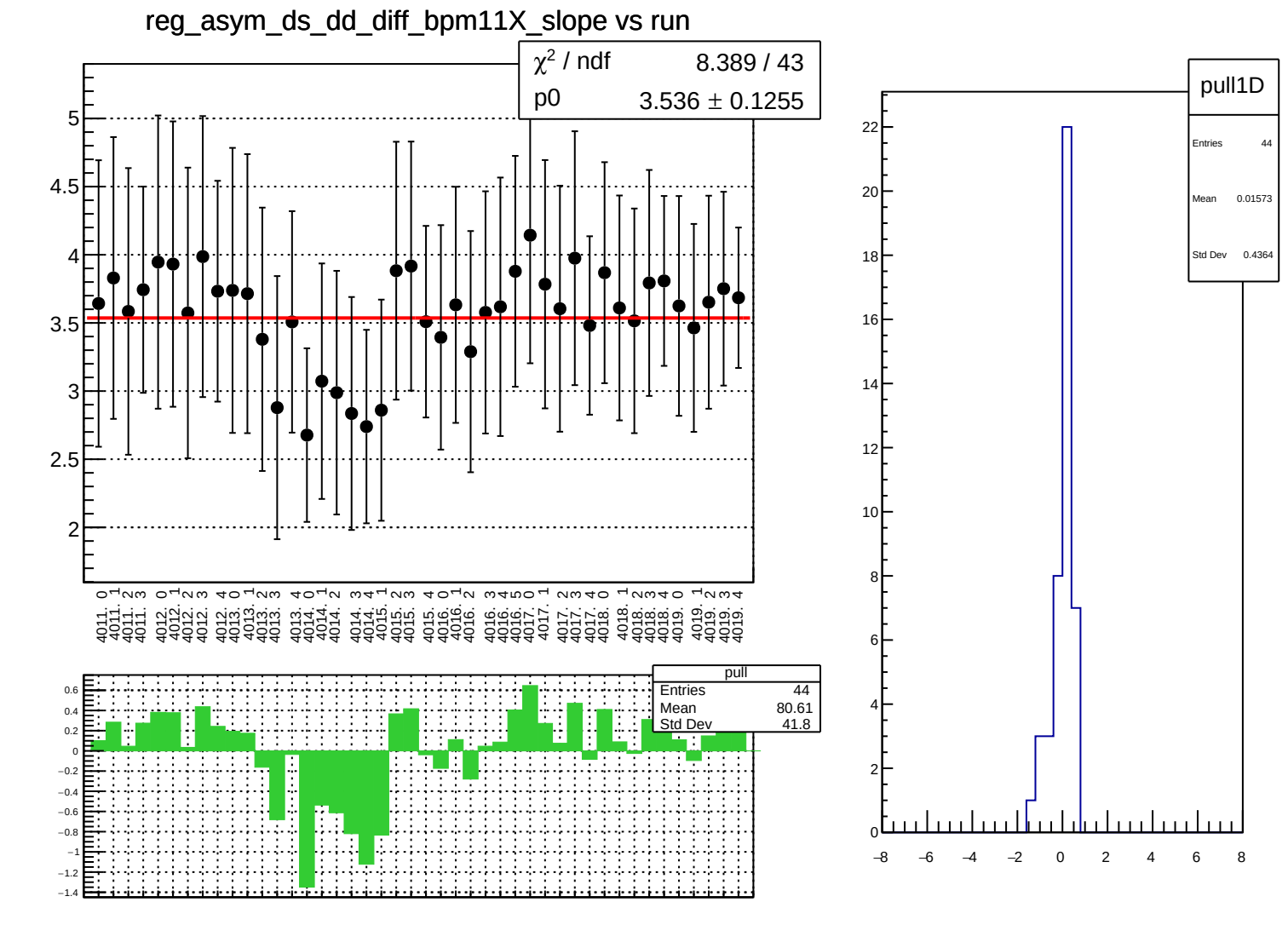

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.688 / 43
p0 −0.7982 ± 0.3712
pull
Entries 44
Mean 311.8
Std Dev 287.3
pull1D
Entries 44
Mean −0.005027
Std Dev 0.4443

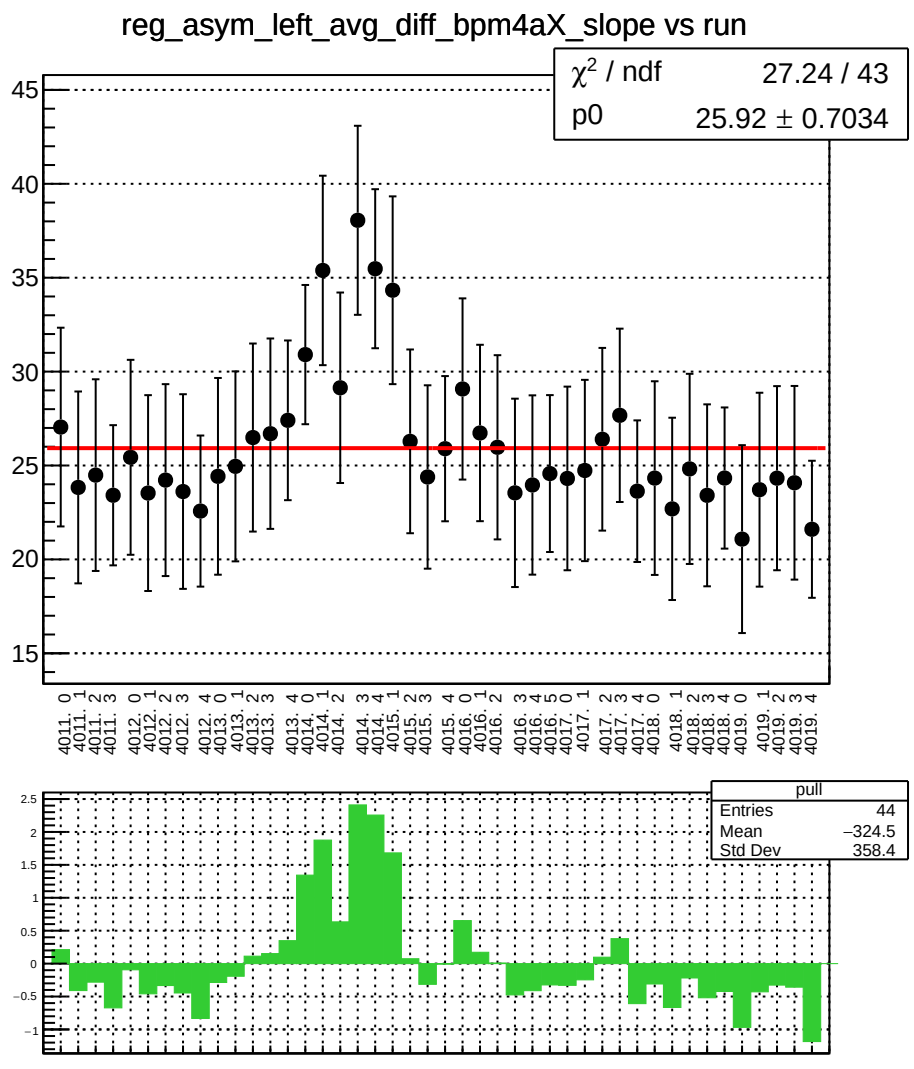

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.03 / 43
p0 −47.87 ± 0.08412
−46
−46.5
−47
−47.5
−48
−48.5
−49
−49.5
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −4241
Std Dev 4259
2
1.5
1
0.5
0
−0.5
−1
−1.5

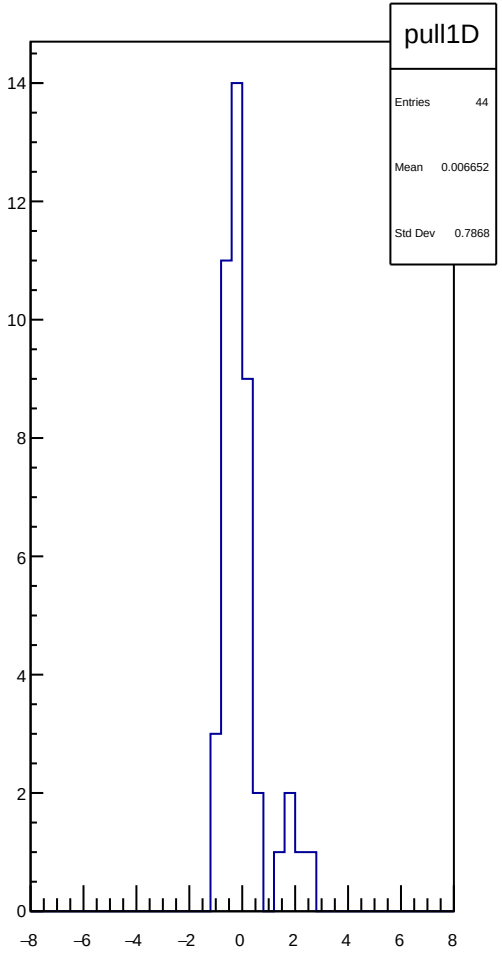

pull1D
Entries 44
Mean −0.001994
Std Dev 1.077
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

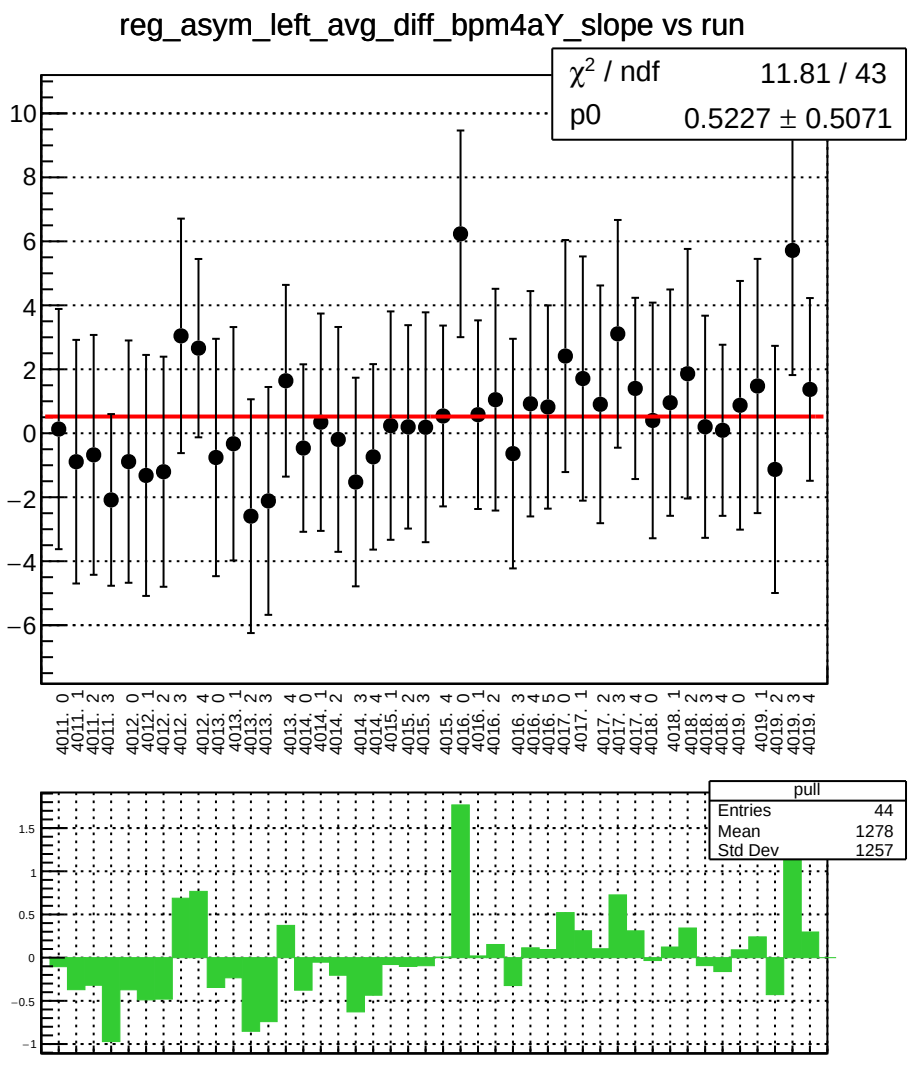

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.136 / 43
p0 0.928 ± 0.6413
pull
Entries 44
Mean 441.7
Std Dev 417.3

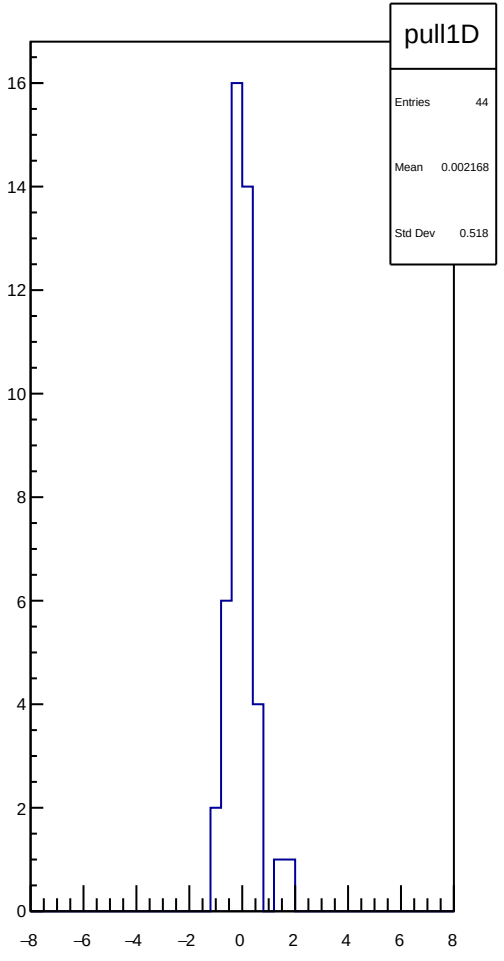

pull1D
Entries 44
Mean 0.003815
Std Dev 0.4557

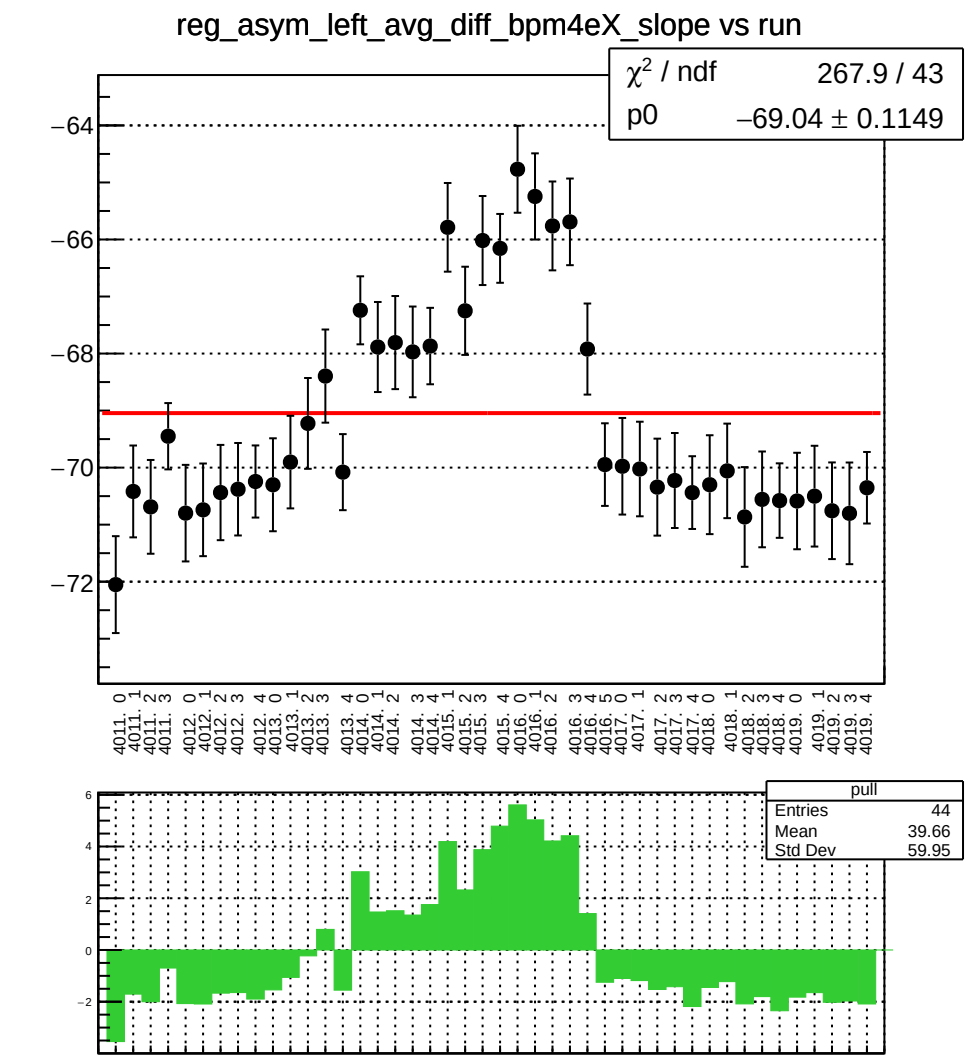

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 8.389 / 43
p0 3.536 ± 0.1255
pull
Entries 44
Mean 80.61
Std Dev 41.8
pull1D
Entries 44
Mean 0.01573
Std Dev 0.4364

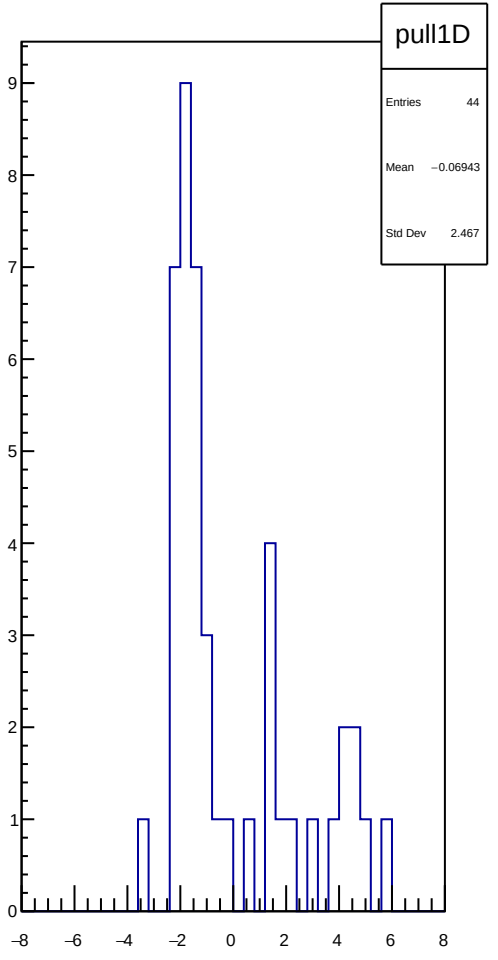

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 27.24 / 43
p0 25.92 ± 0.7034
45
40
35
30
25
20
15
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −324.5
Std Dev 358.4
2.5
2
1.5
1
0.5
0
−0.5
−1

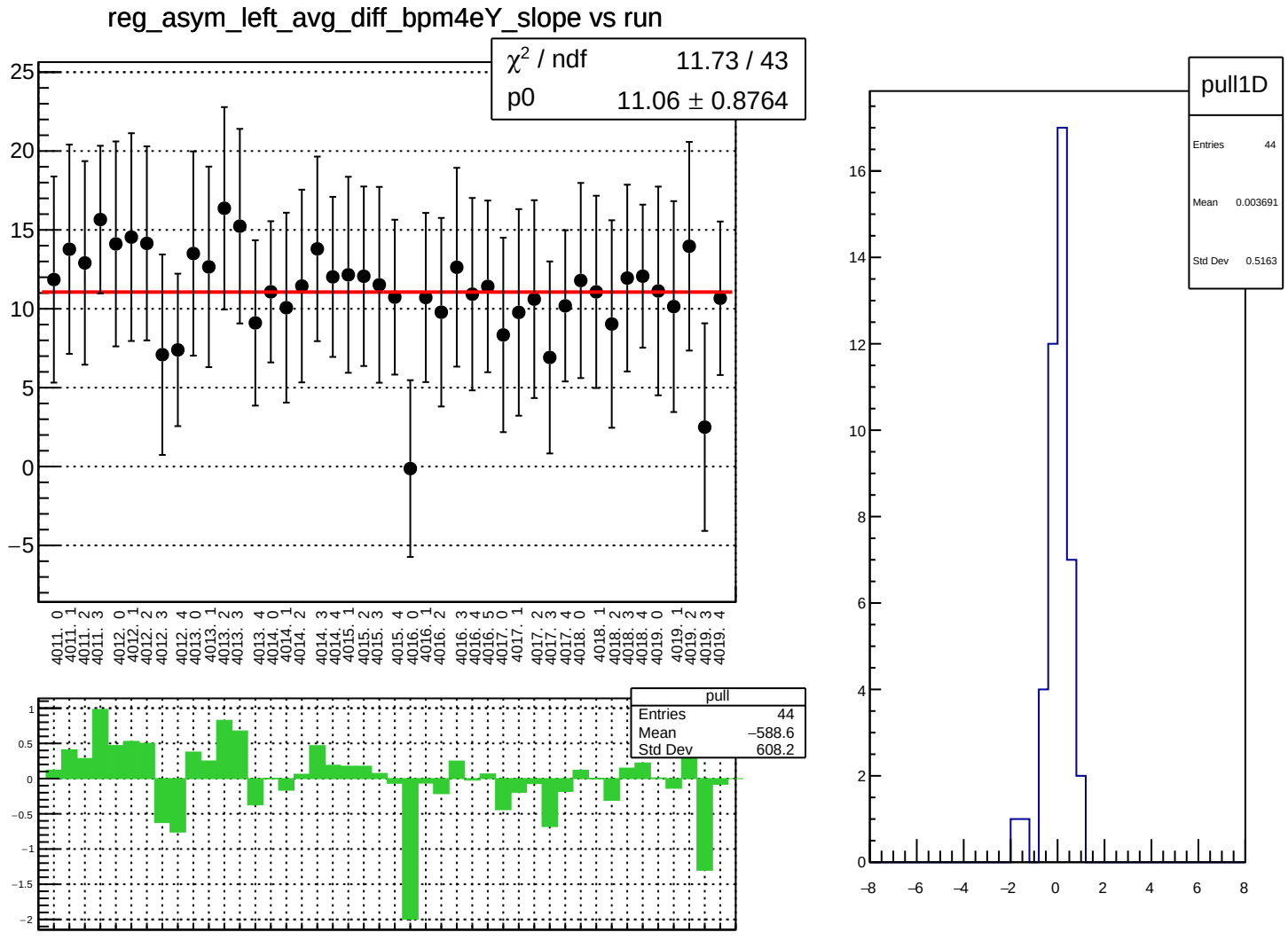

pull1D
Entries 44
Mean 0.006652
Std Dev 0.7868
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

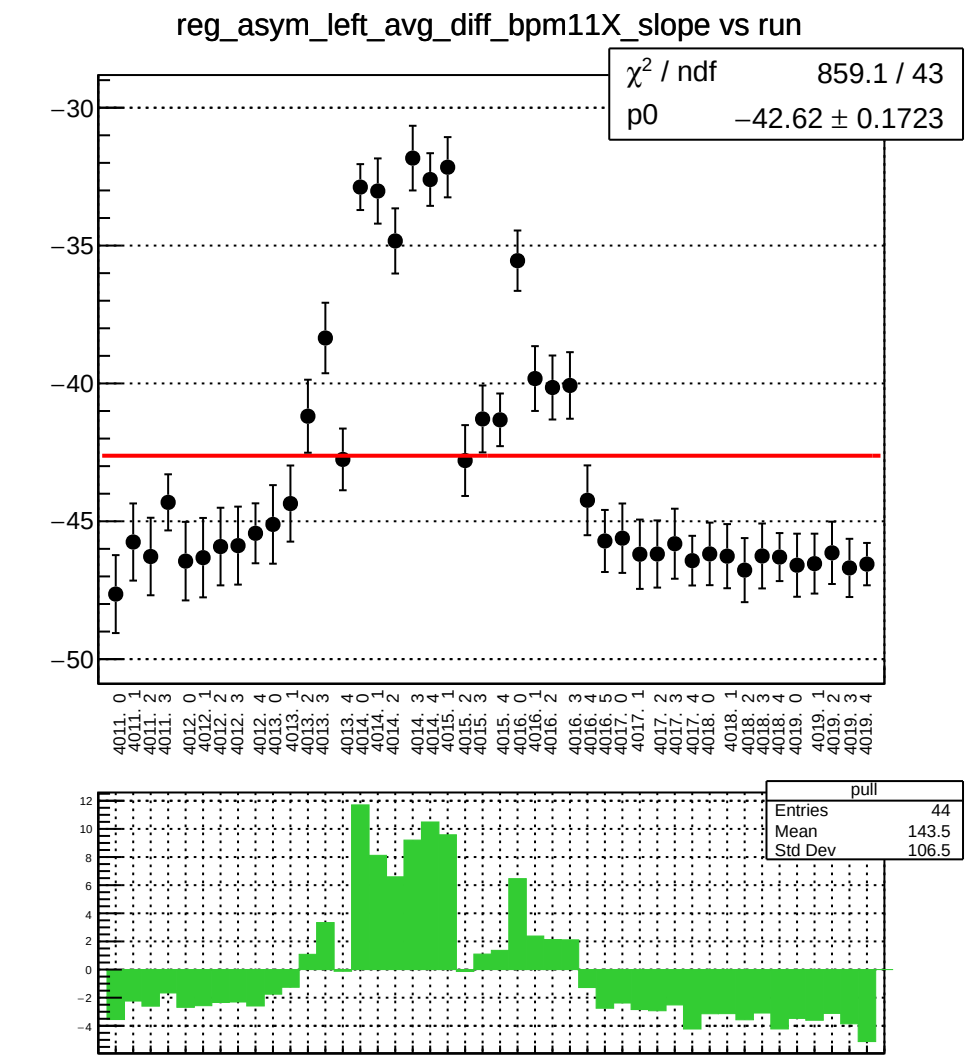

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.81 / 43
p0 0.5227 ± 0.5071
pull
Entries 44
Mean 1278
Std Dev 1257

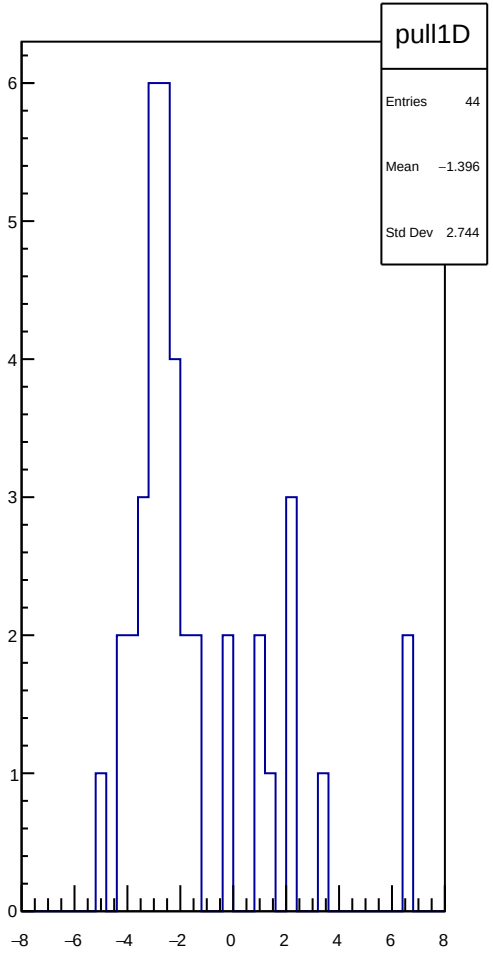

pull1D
Entries 44
Mean 0.002168
Std Dev 0.518

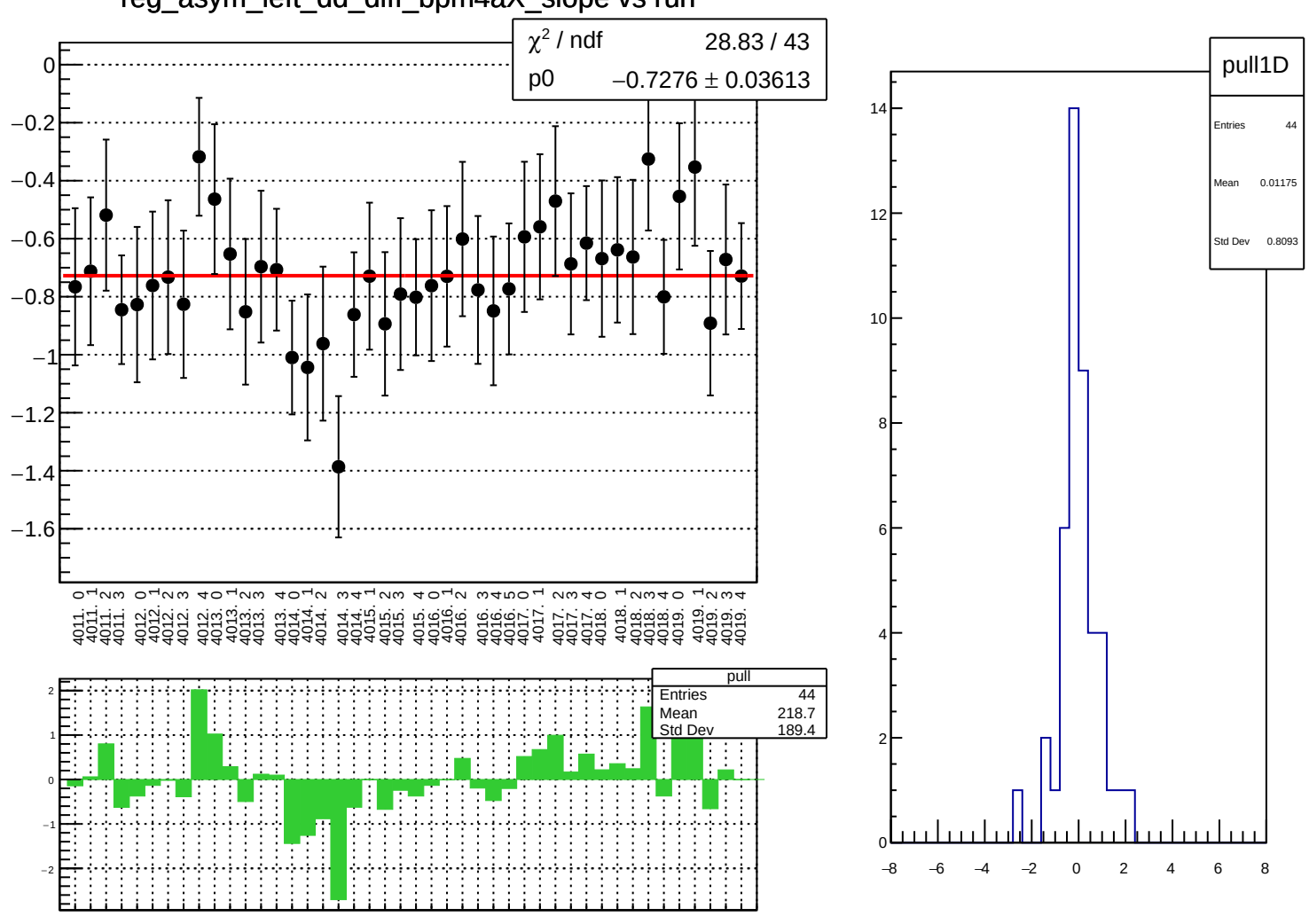

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 267.9 / 43
p0 −69.04 ± 0.1149
−64
−66
−68
−70
−72
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 39.66
Std Dev 59.95
6
4
2
0
−2

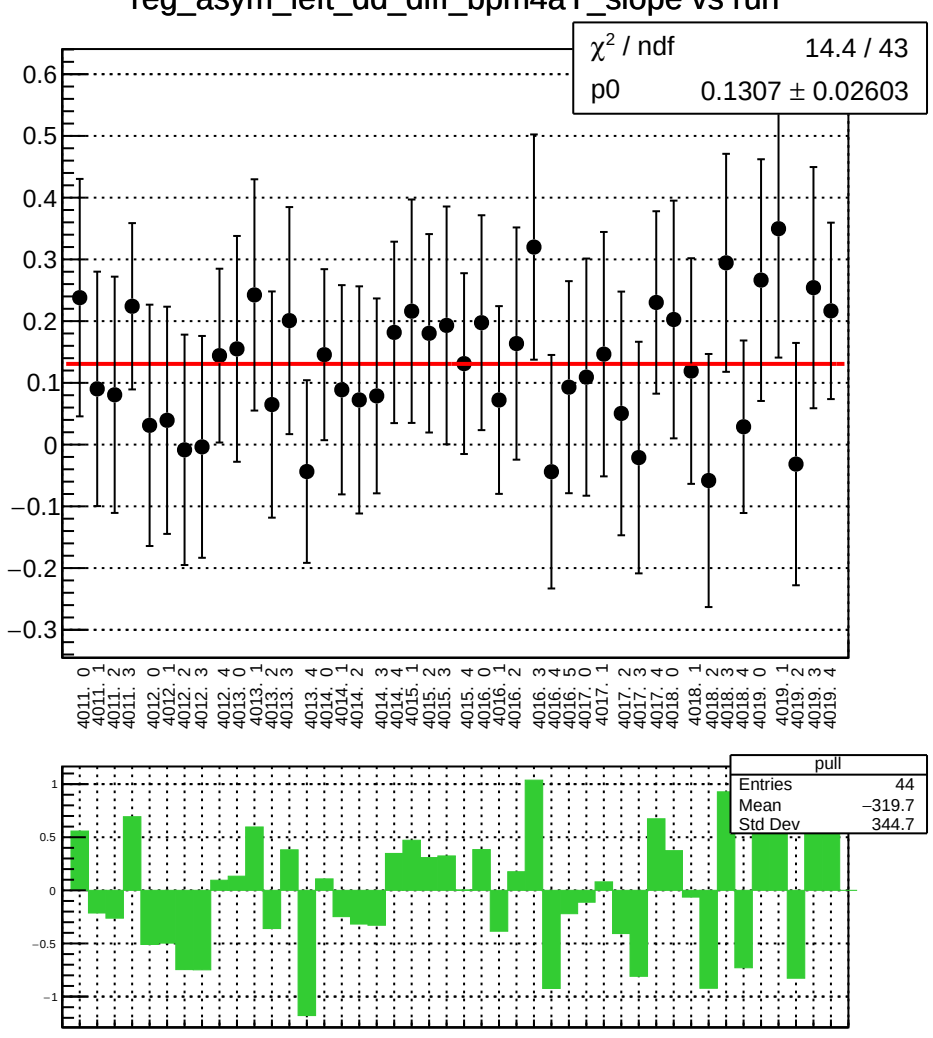

pull1D
Entries 44
Mean −0.06943
Std Dev 2.467
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

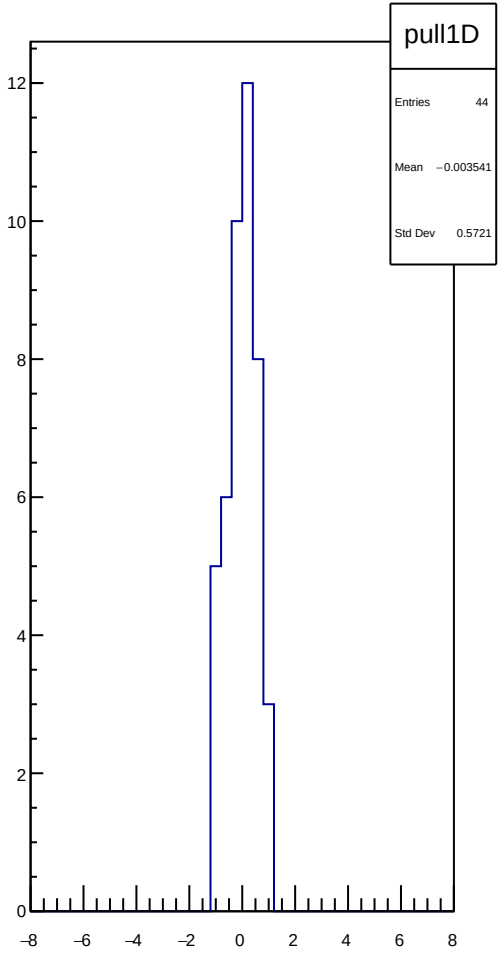

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.73 / 43
p0 11.06 ± 0.8764
pull
Entries 44
Mean −588.6
Std Dev 608.2
pull1D
Entries 44
Mean 0.003691
Std Dev 0.5163

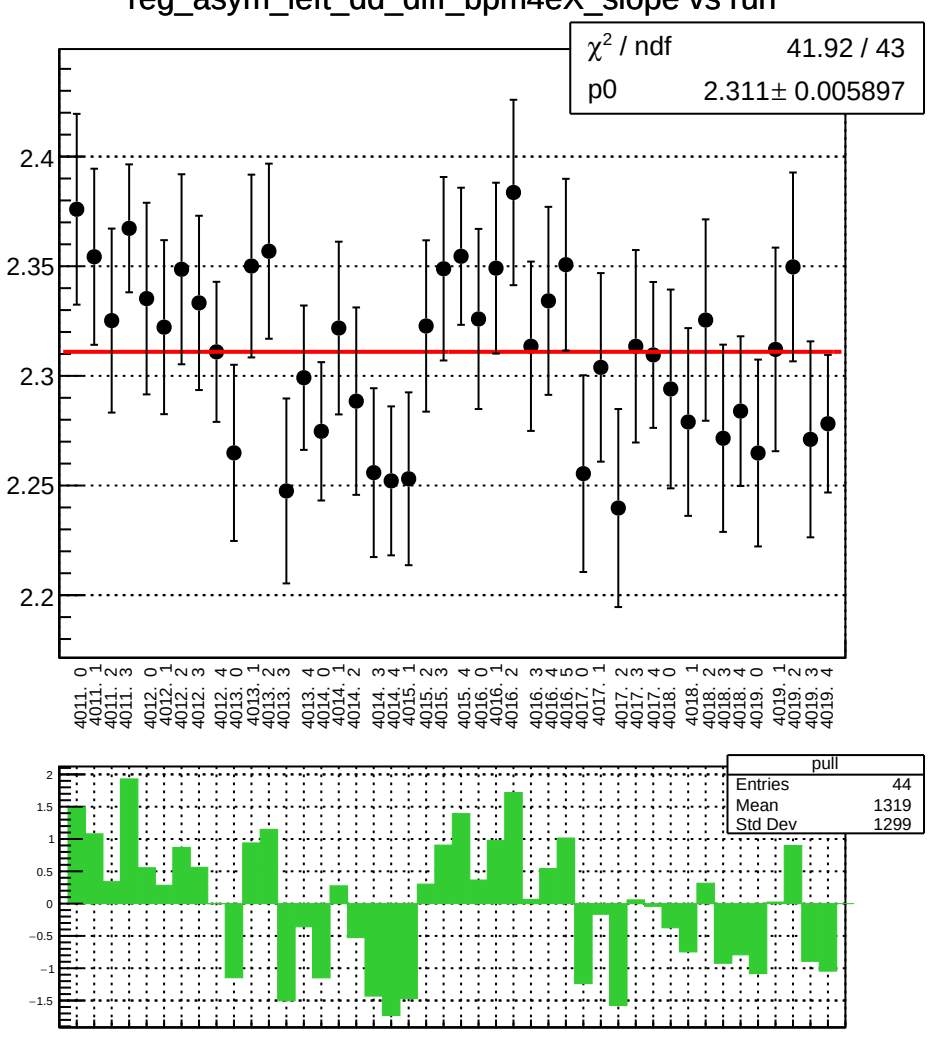

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 859.1 / 43
p0 −42.62 ± 0.1723
−30
−35
−40
−45
−50
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 143.5
Std Dev 106.5
12
10
8
6
4
2
0
−2
−4

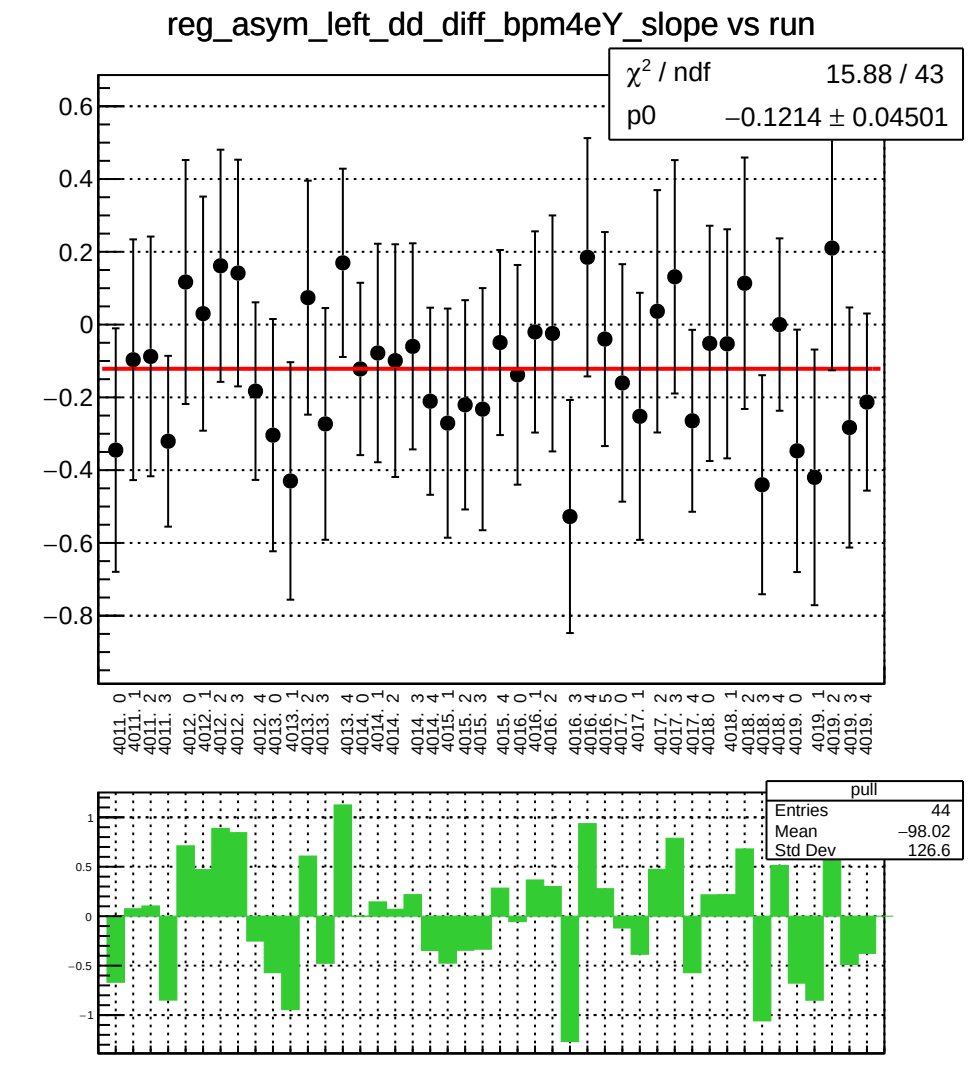

pull1D
Entries 44
Mean −1.396
Std Dev 2.744
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

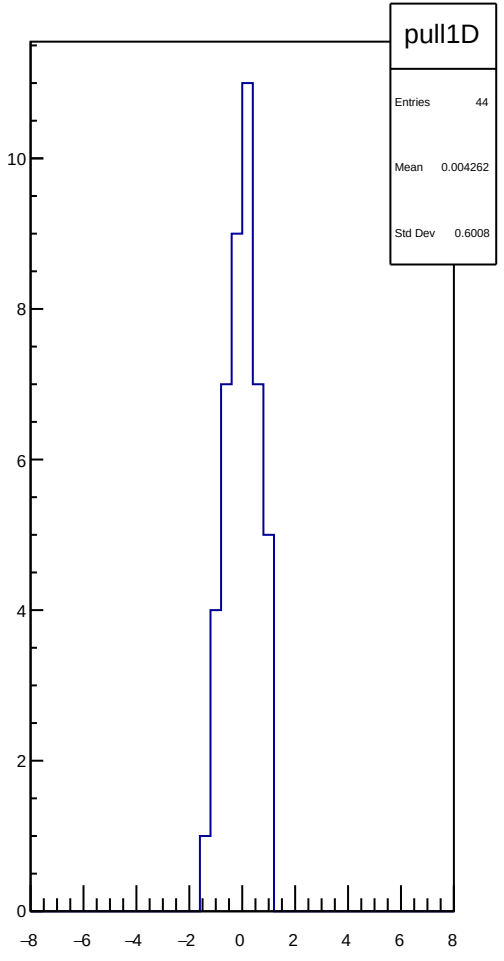

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 28.83 / 43
p0 −0.7276 ± 0.03613
pull
Entries 44
Mean 218.7
Std Dev 189.4
pull1D
Entries 44
Mean 0.01175
Std Dev 0.8093

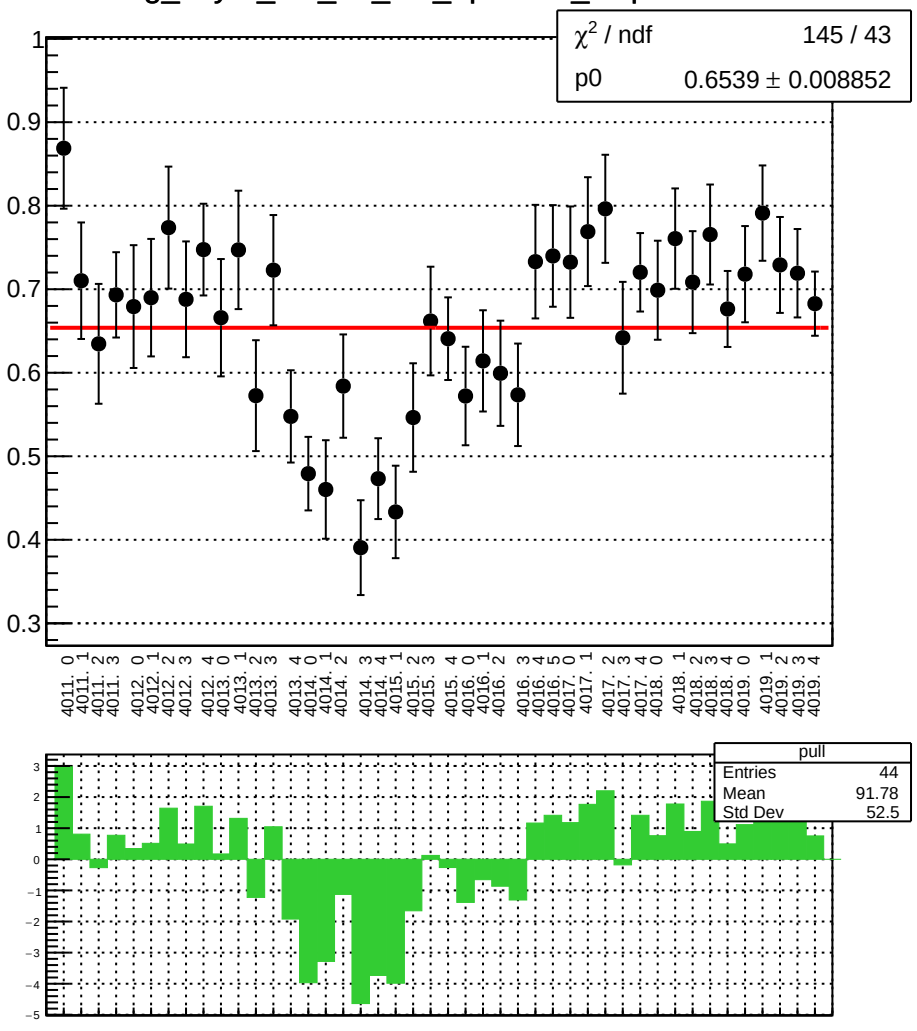

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.4 / 43
p0 0.1307 ± 0.02603
pull
Entries 44
Mean −319.7
Std Dev 344.7

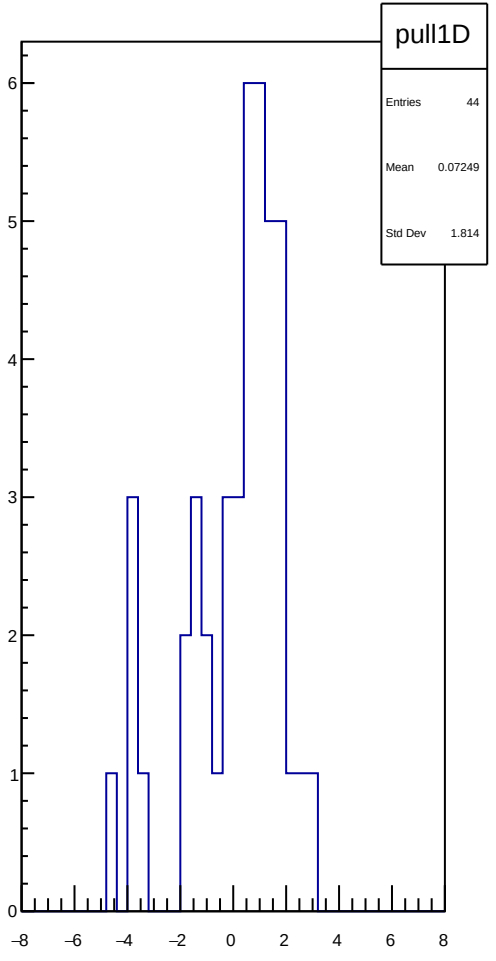

pull1D
Entries 44
Mean −0.003541
Std Dev 0.5721

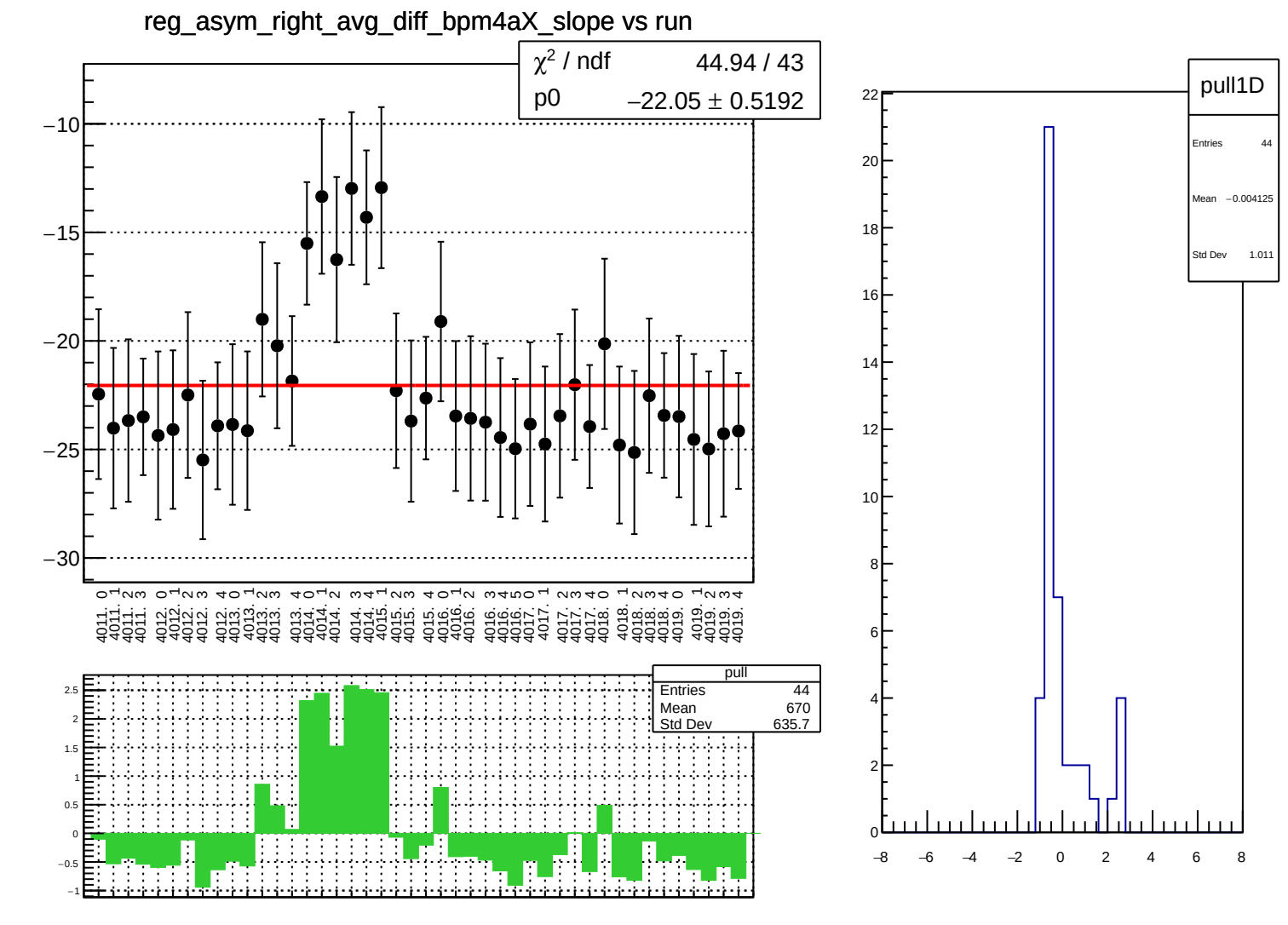

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.92 / 43
p0 2.311± 0.005897
2.4
2.35
2.3
2.25
2.2
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 1319
Std Dev 1299
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean −0.003225
Std Dev 0.9761
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

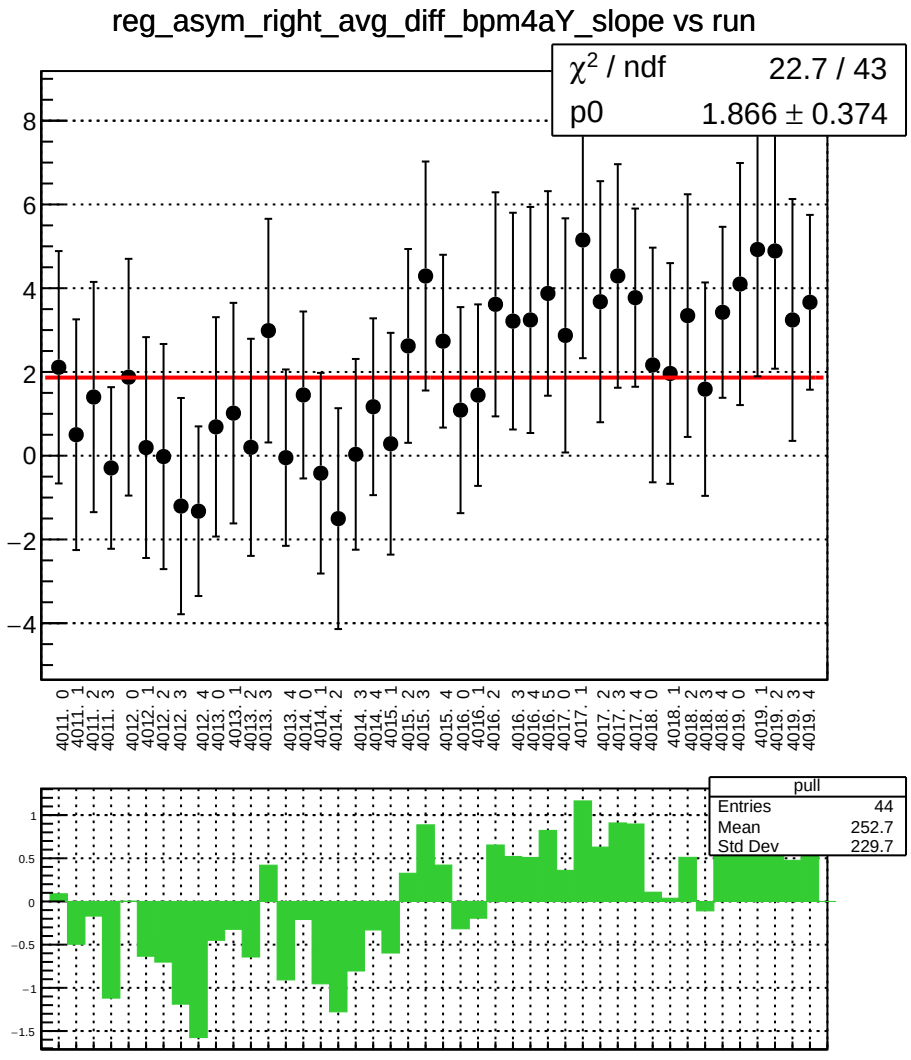

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.88 / 43
p0 −0.1214 ± 0.04501
pull
Entries 44
Mean −98.02
Std Dev 126.6

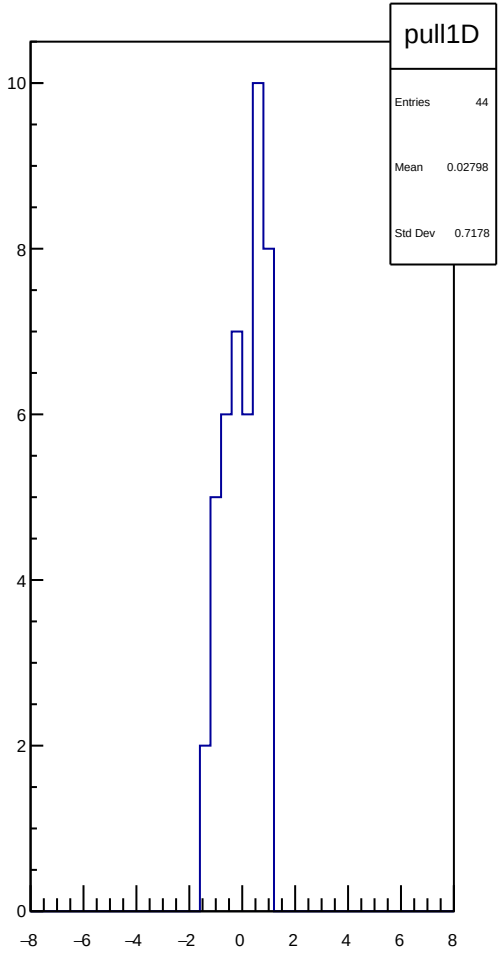

pull1D
Entries 44
Mean 0.004262
Std Dev 0.6008

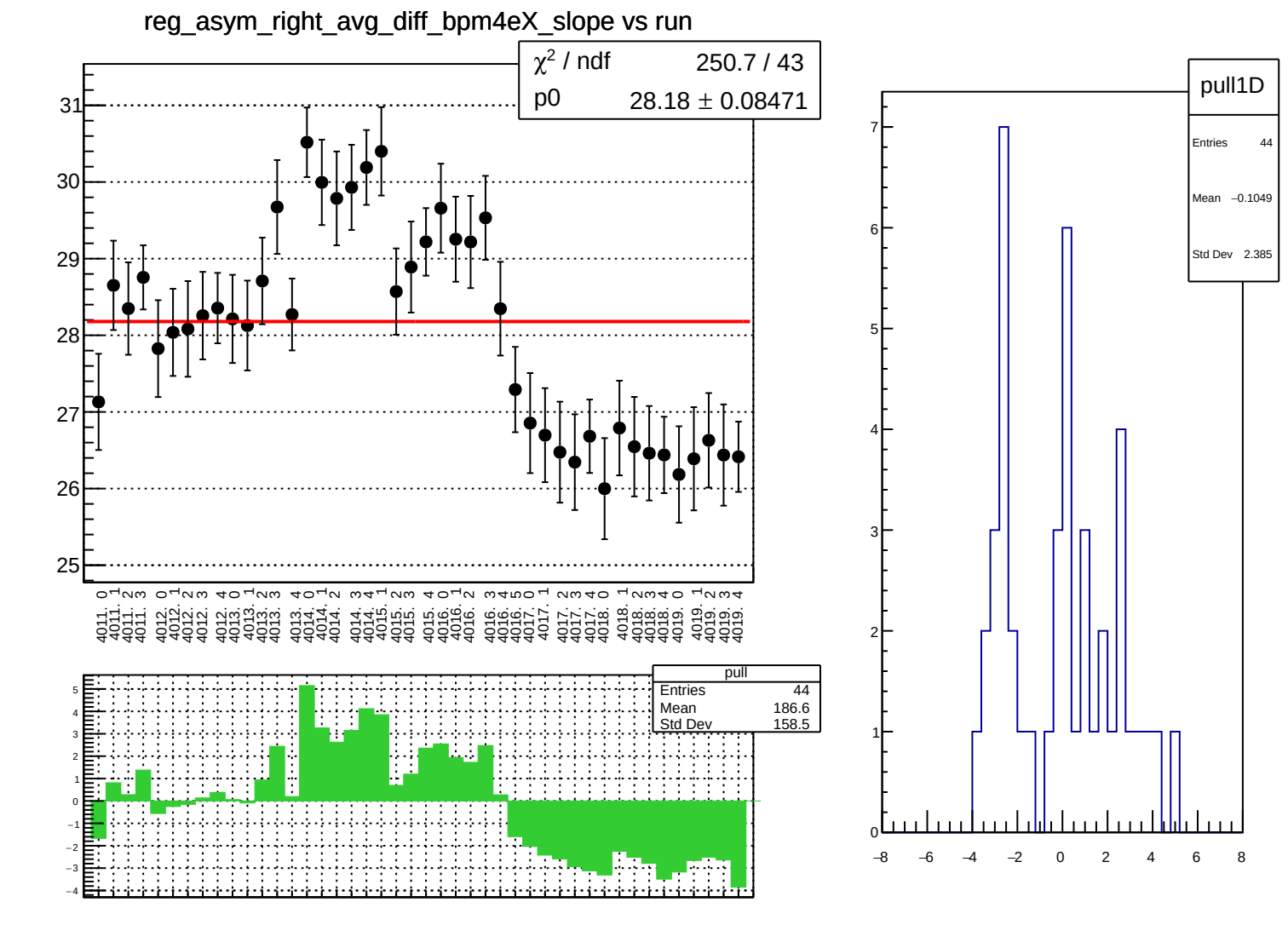

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 145 / 43
p0 0.6539 ± 0.008852
pull
Entries 44
Mean 91.78
Std Dev 52.5

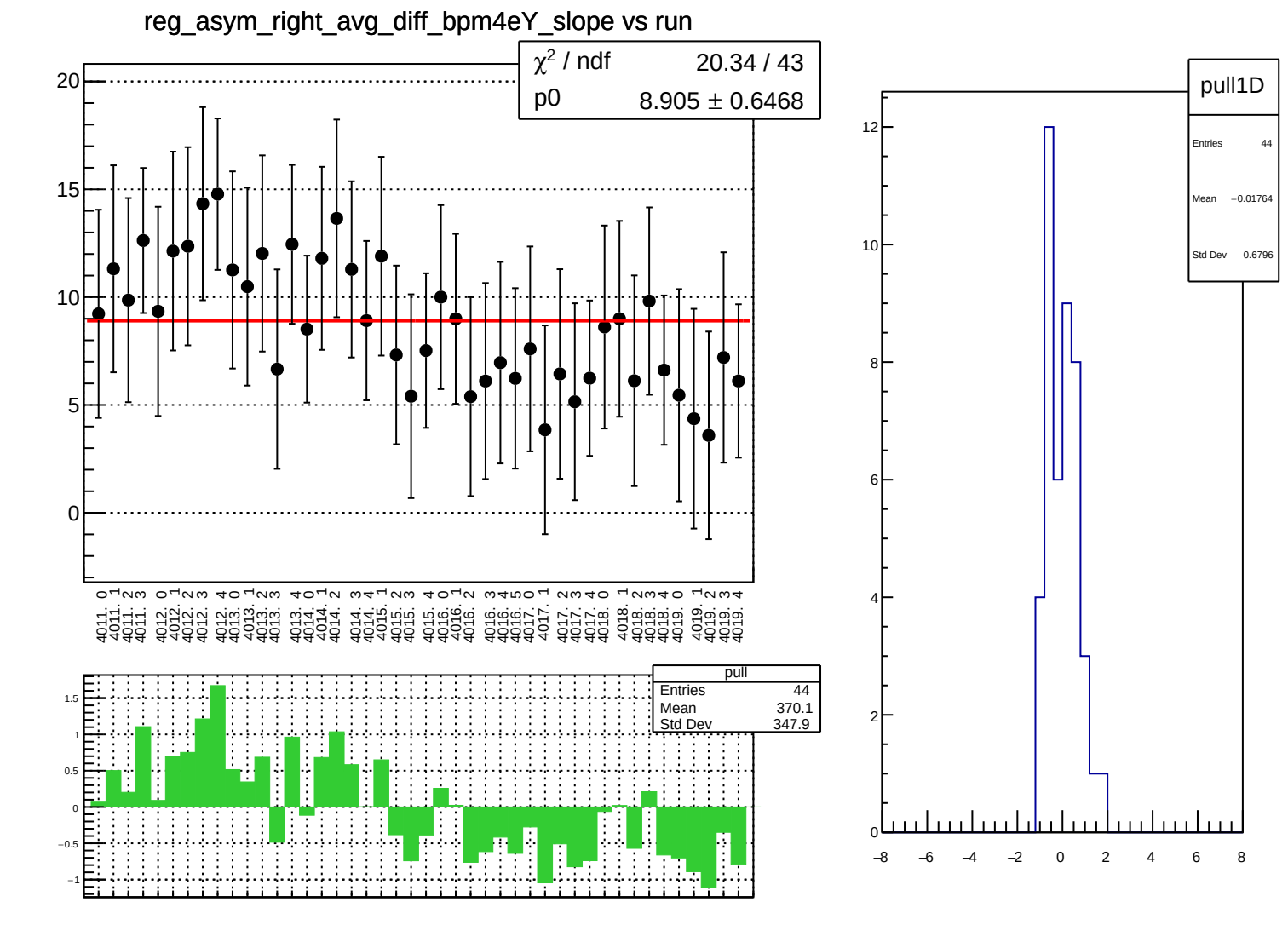

pull1D
Entries 44
Mean 0.07249
Std Dev 1.814

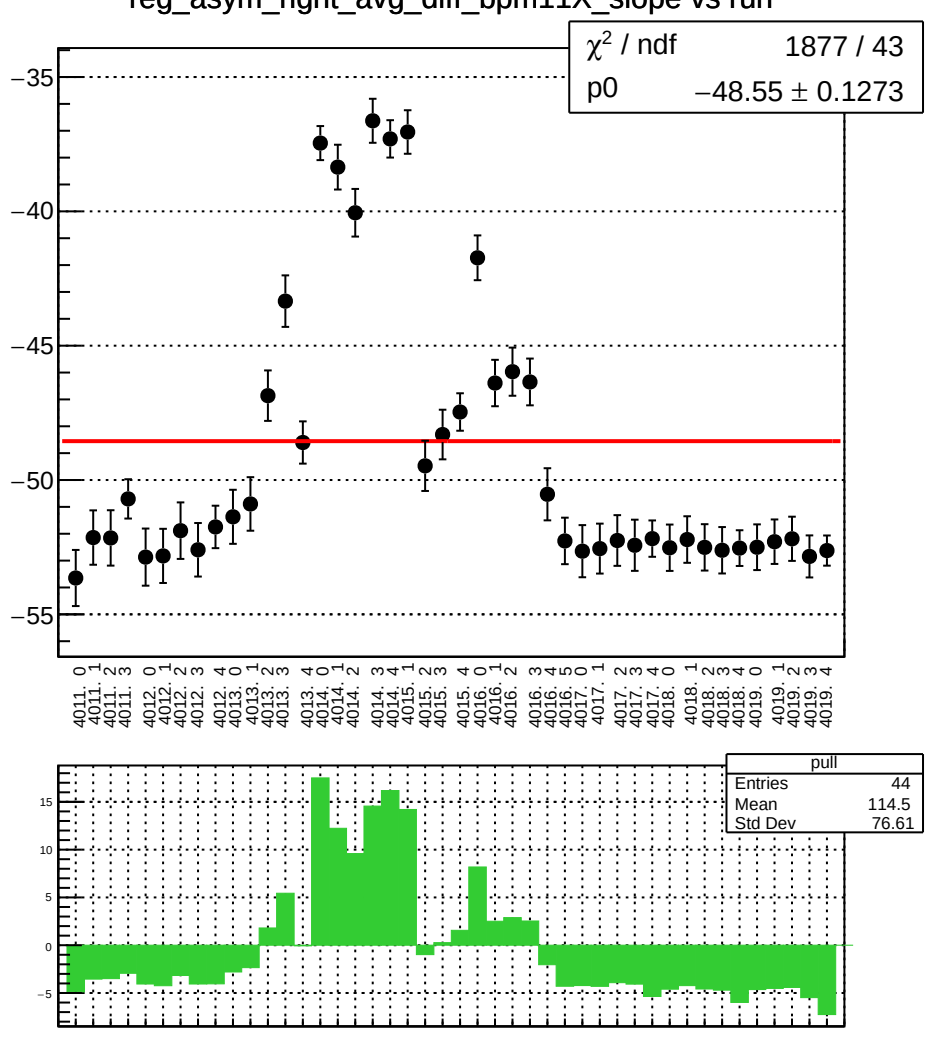

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 44.94 / 43
p0 −22.05 ± 0.5192
pull
Entries 44
Mean 670
Std Dev 635.7
pull1D
Entries 44
Mean −0.004125
Std Dev 1.011

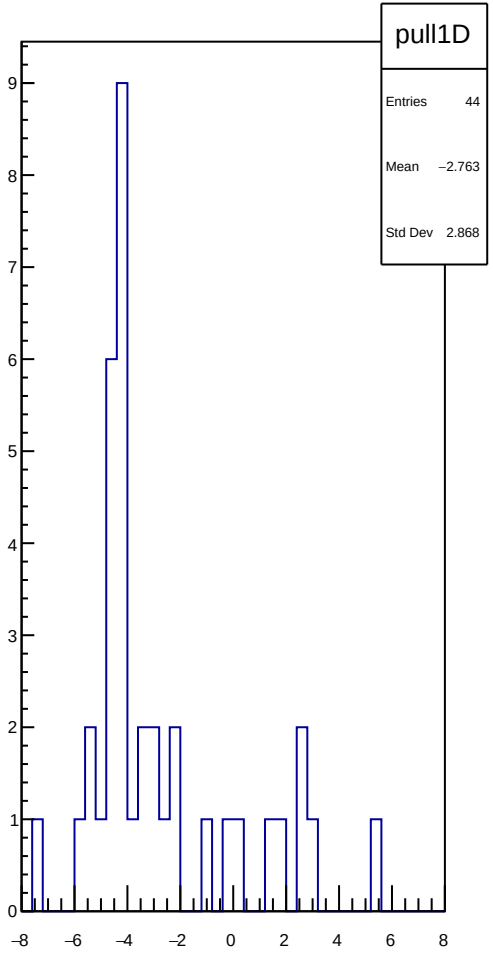

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.7 / 43
p0 1.866 ± 0.374
pull
Entries 44
Mean 252.7
Std Dev 229.7

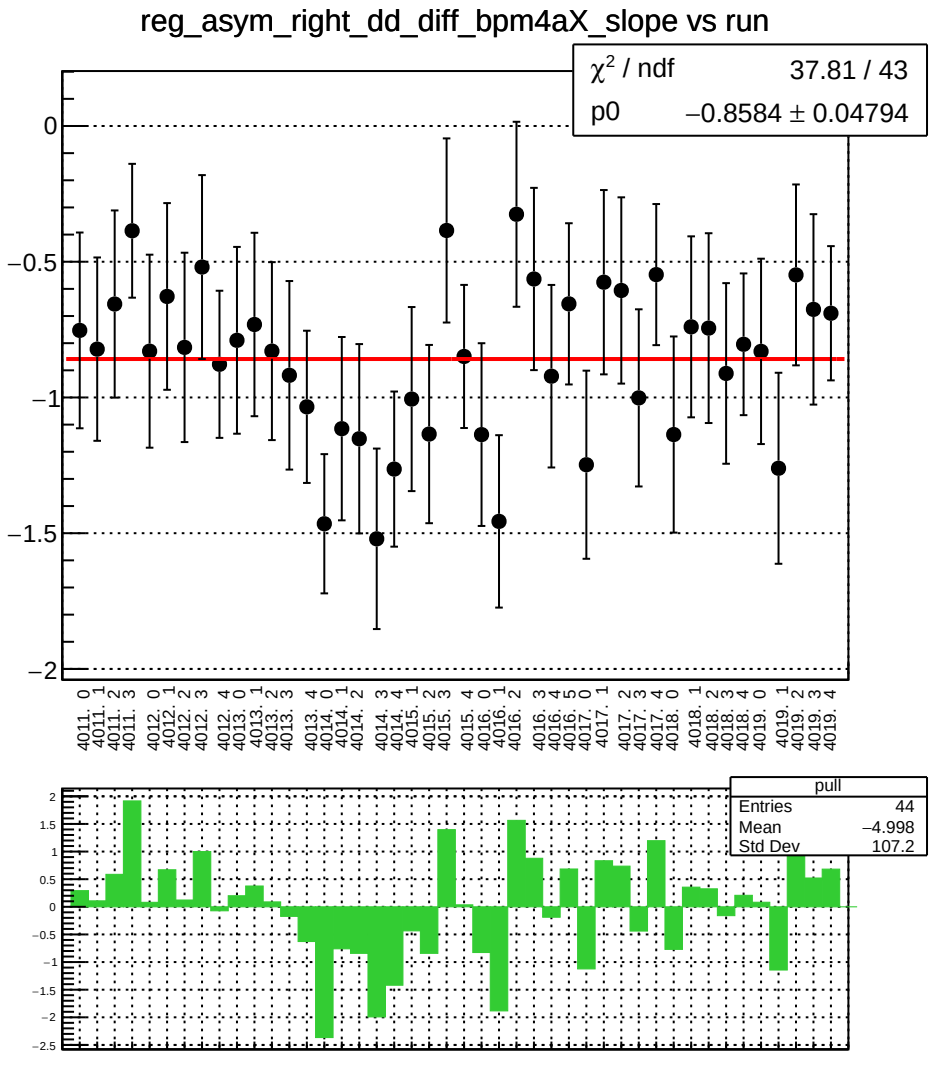

pull1D
Entries 44
Mean 0.02798
Std Dev 0.7178

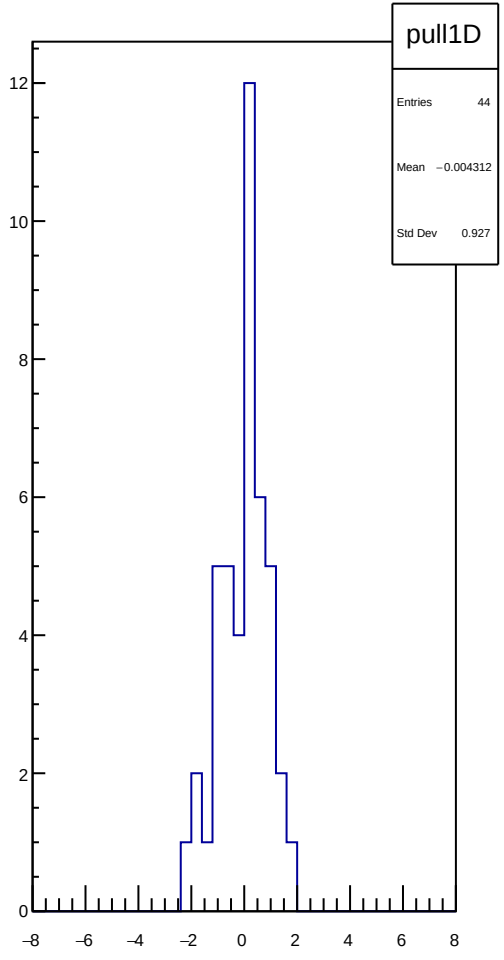

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 250.7 / 43
p0 28.18 ± 0.08471
pull
Entries 44
Mean 186.6
Std Dev 158.5
pull1D
Entries 44
Mean −0.1049
Std Dev 2.385

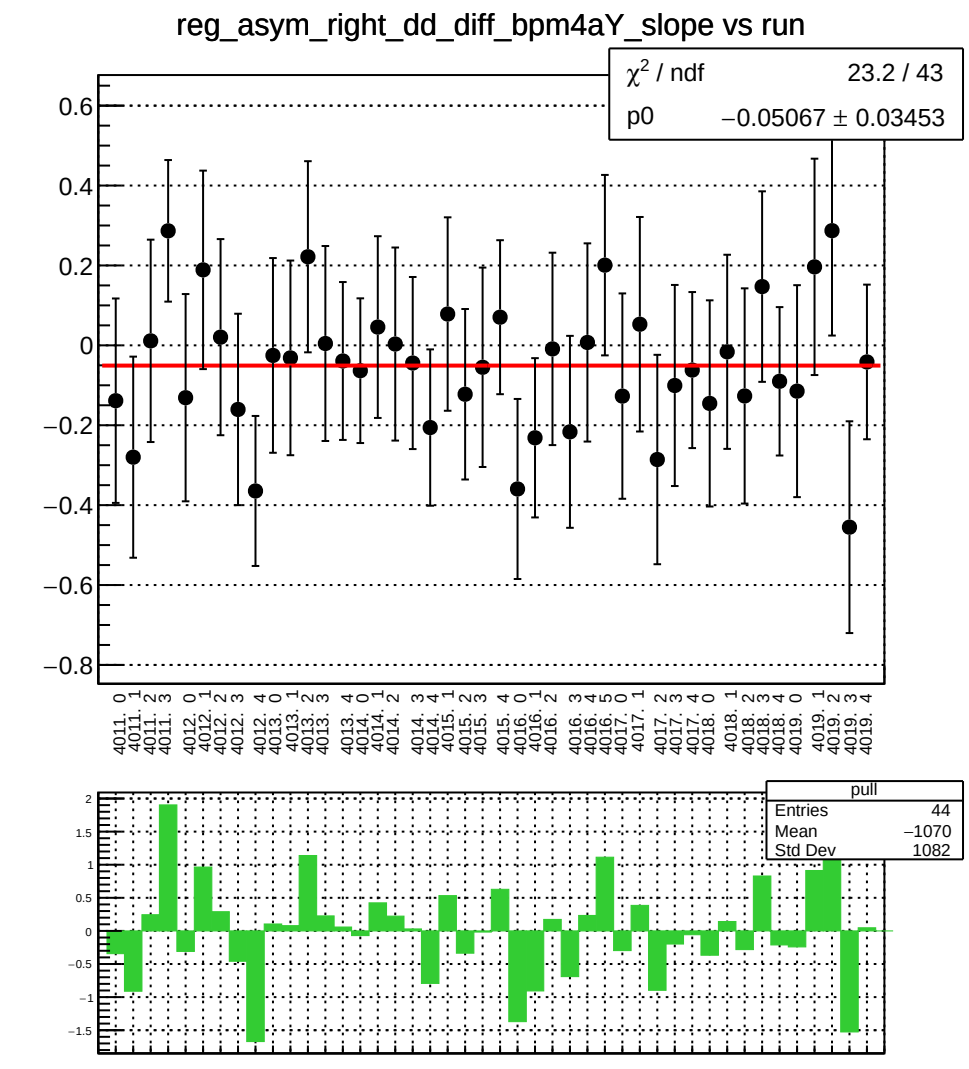

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.34 / 43
p0 8.905 ± 0.6468
pull
Entries 44
Mean 370.1
Std Dev 347.9
pull1D
Entries 44
Mean −0.01764
Std Dev 0.6796

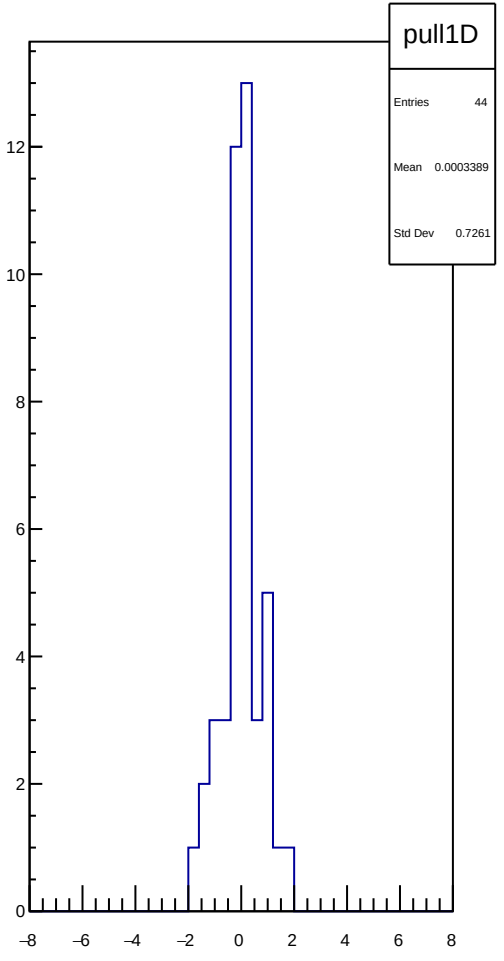

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 1877 / 43
p0 −48.55 ± 0.1273
pull
Entries 44
Mean 114.5
Std Dev 76.61

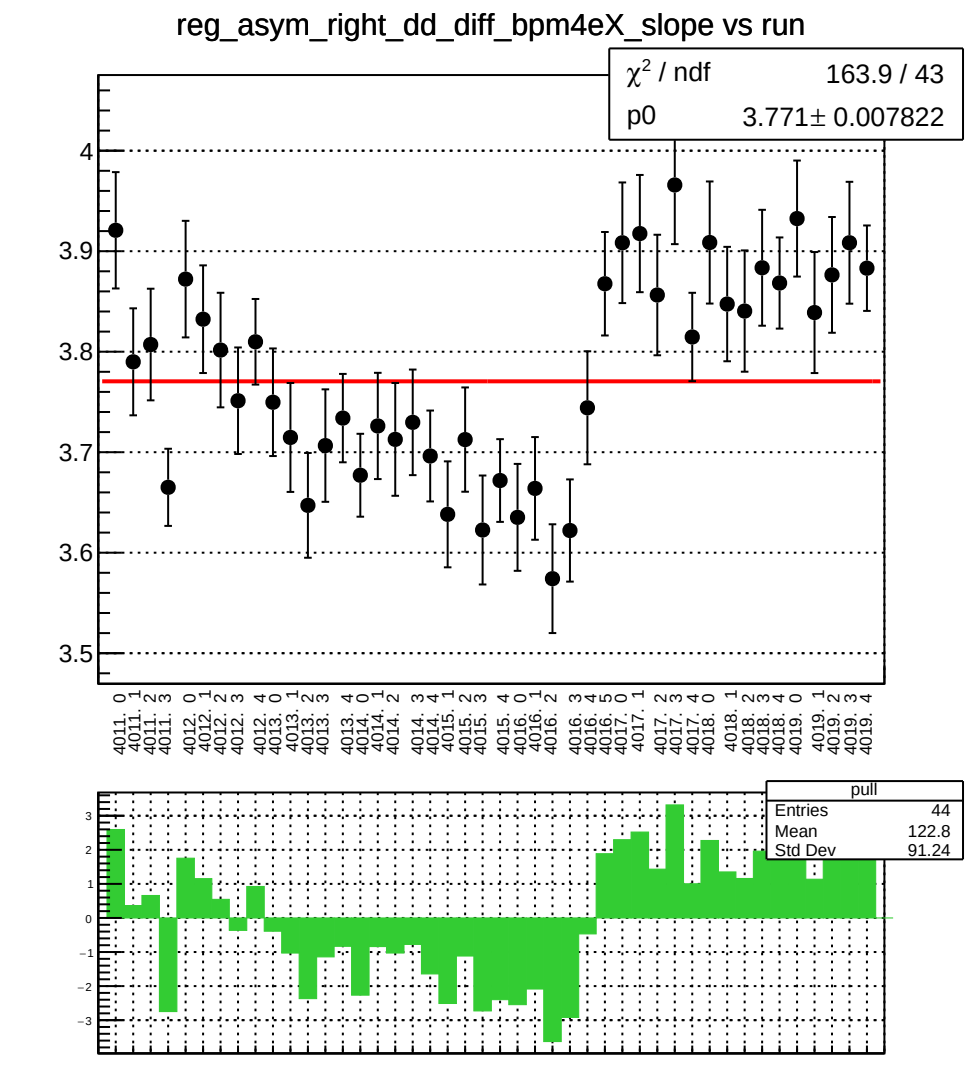

pull1D
Entries 44
Mean −2.763
Std Dev 2.868

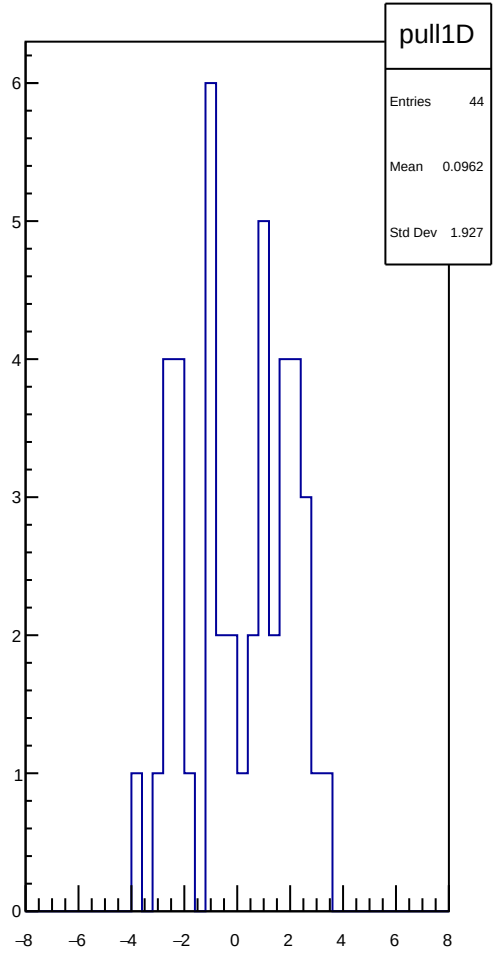

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 37.81 / 43
p0 −0.8584 ± 0.04794
pull
Entries 44
Mean −4.998
Std Dev 107.2

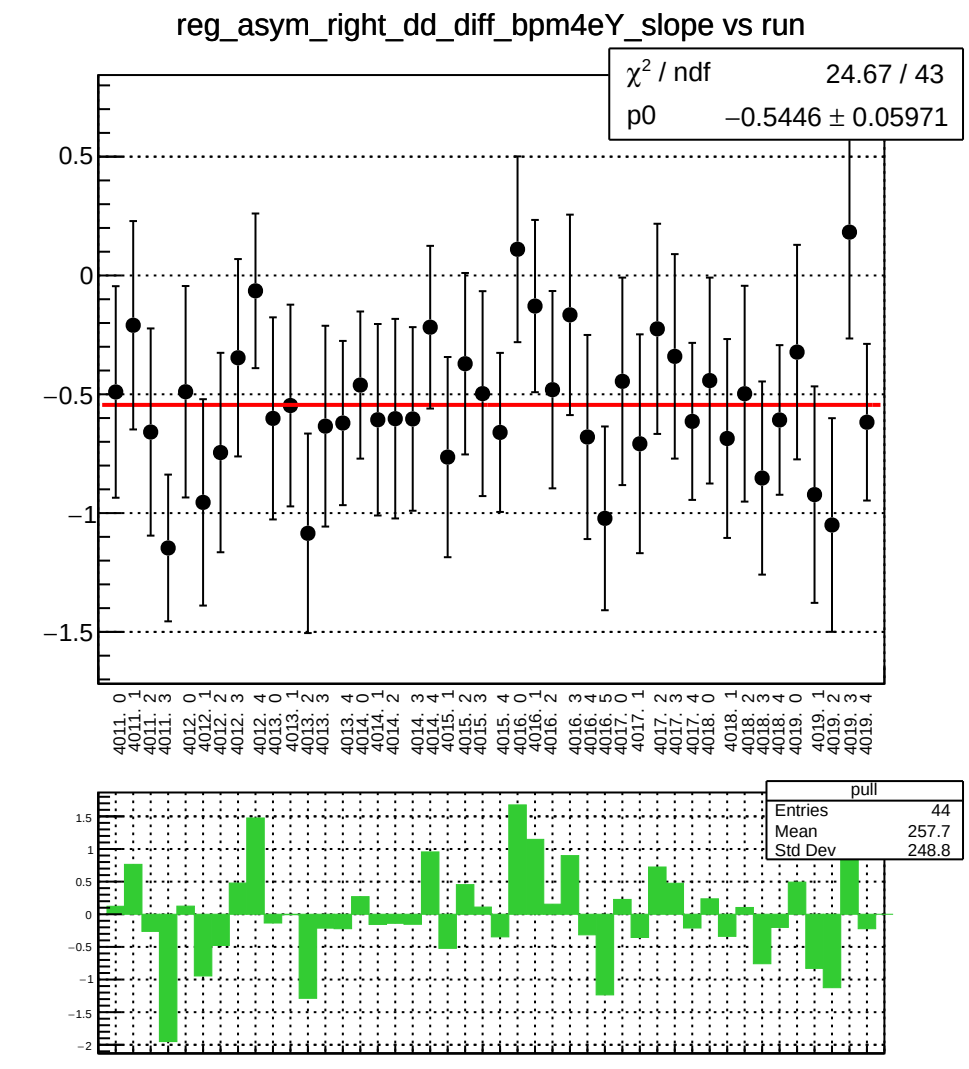

pull1D
Entries 44
Mean −0.004312
Std Dev 0.927

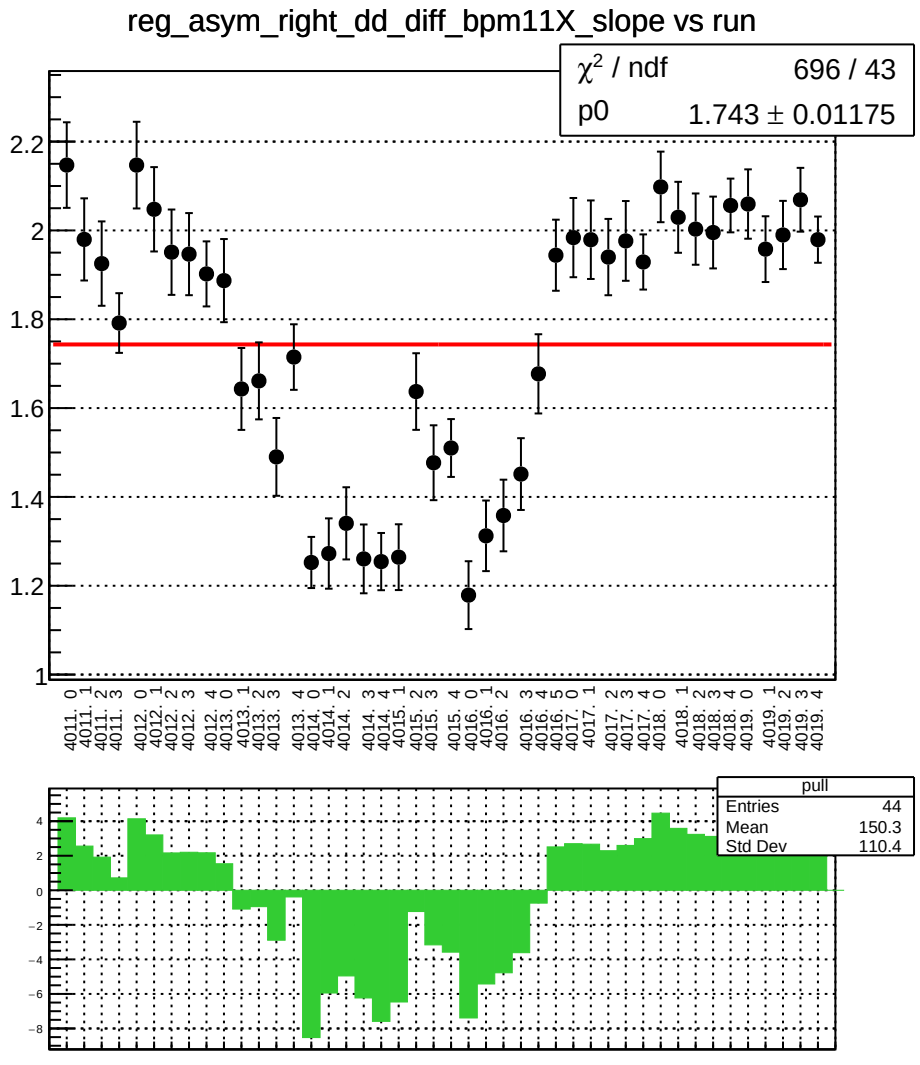

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.2 / 43
p0 −0.05067 ± 0.03453
pull
Entries 44
Mean −1070
Std Dev 1082

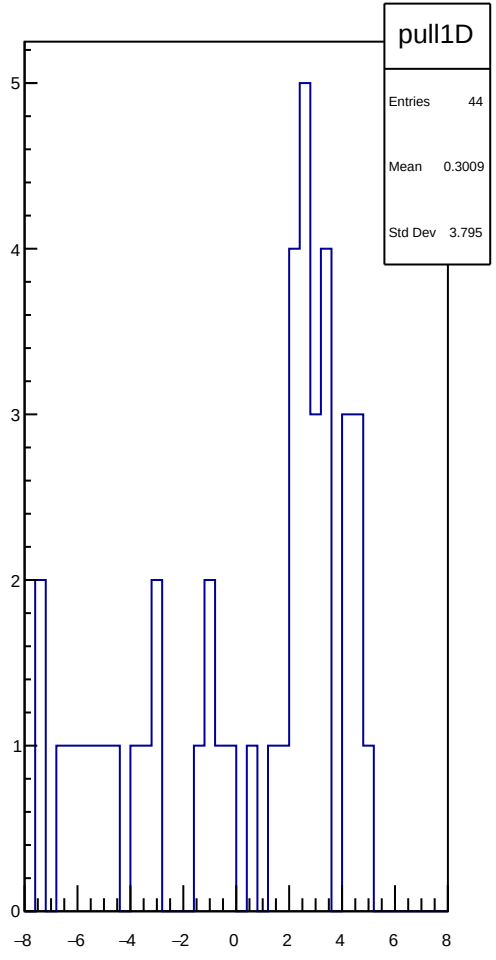

pull1D
Entries 44
Mean 0.0003389
Std Dev 0.7261

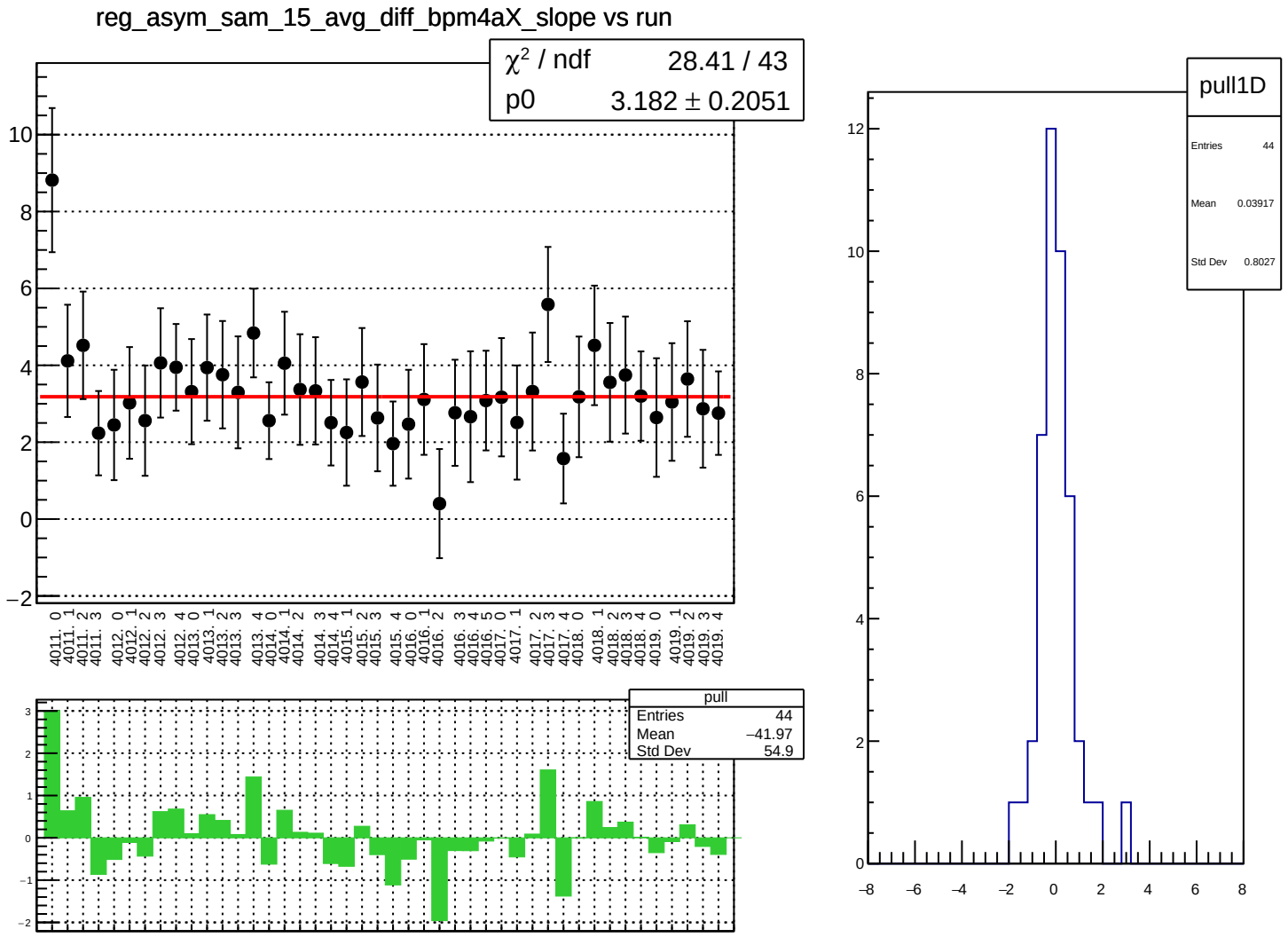

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 163.9 / 43
p0 3.771± 0.007822
pull
Entries 44
Mean 122.8
Std Dev 91.24

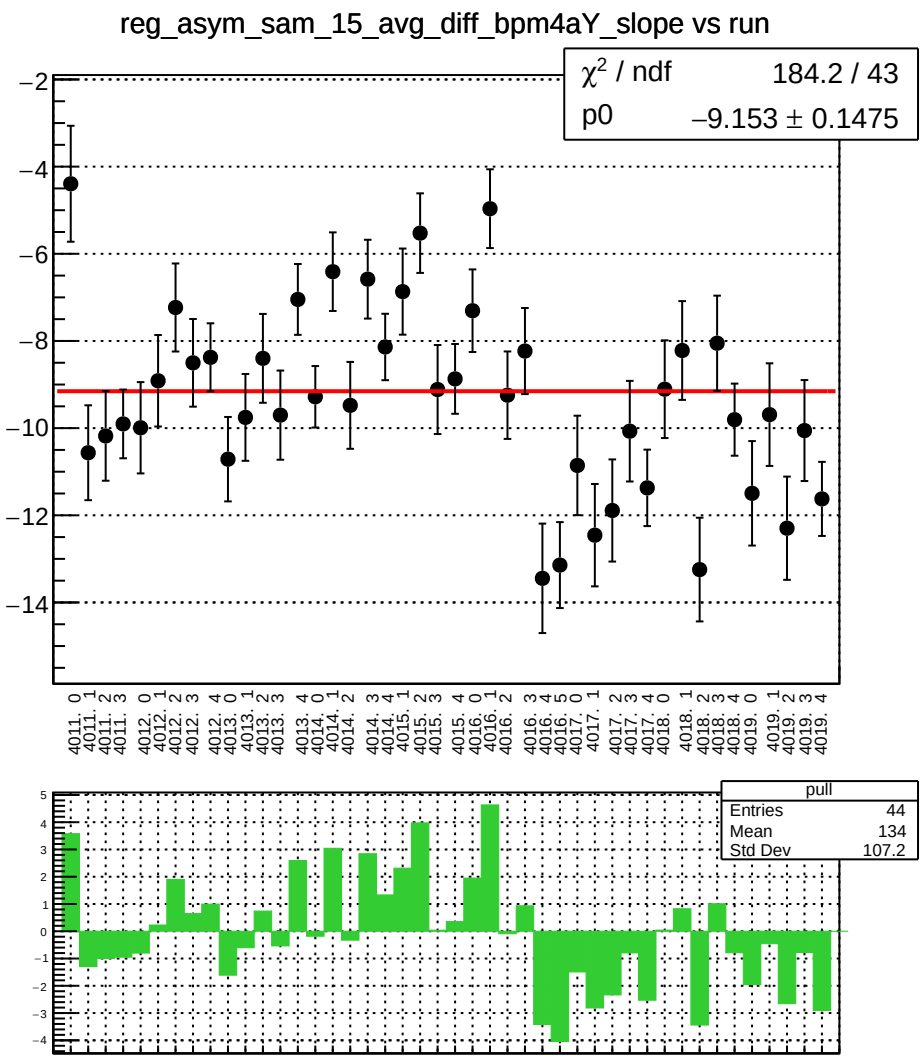

pull1D
Entries 44
Mean 0.0962
Std Dev 1.927

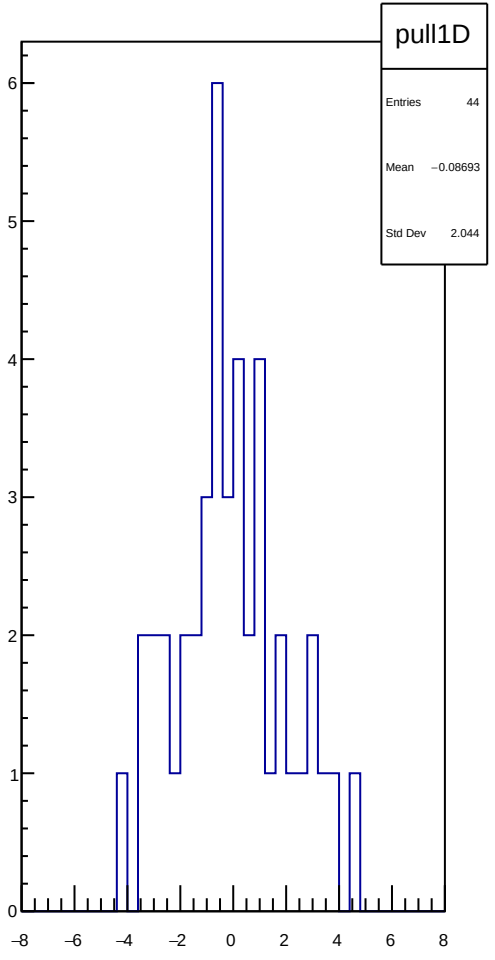

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.67 / 43
p0 −0.5446 ± 0.05971
0.5
0
−0.5
−1
−1.5
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 257.7
Std Dev 248.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean 0.002562
Std Dev 0.7487
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

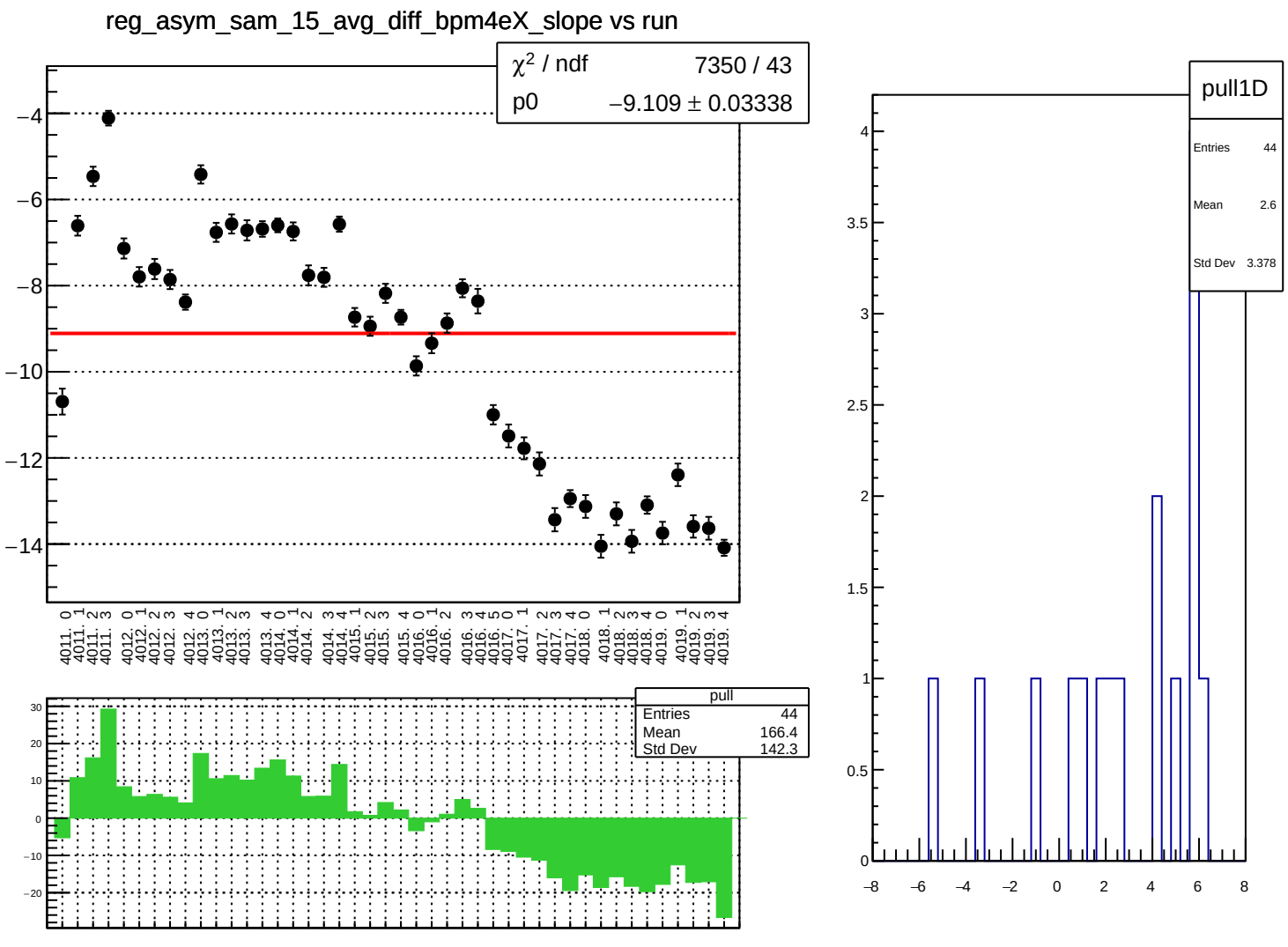

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 696 / 43
p0 1.743 ± 0.01175
pull
Entries 44
Mean 150.3
Std Dev 110.4

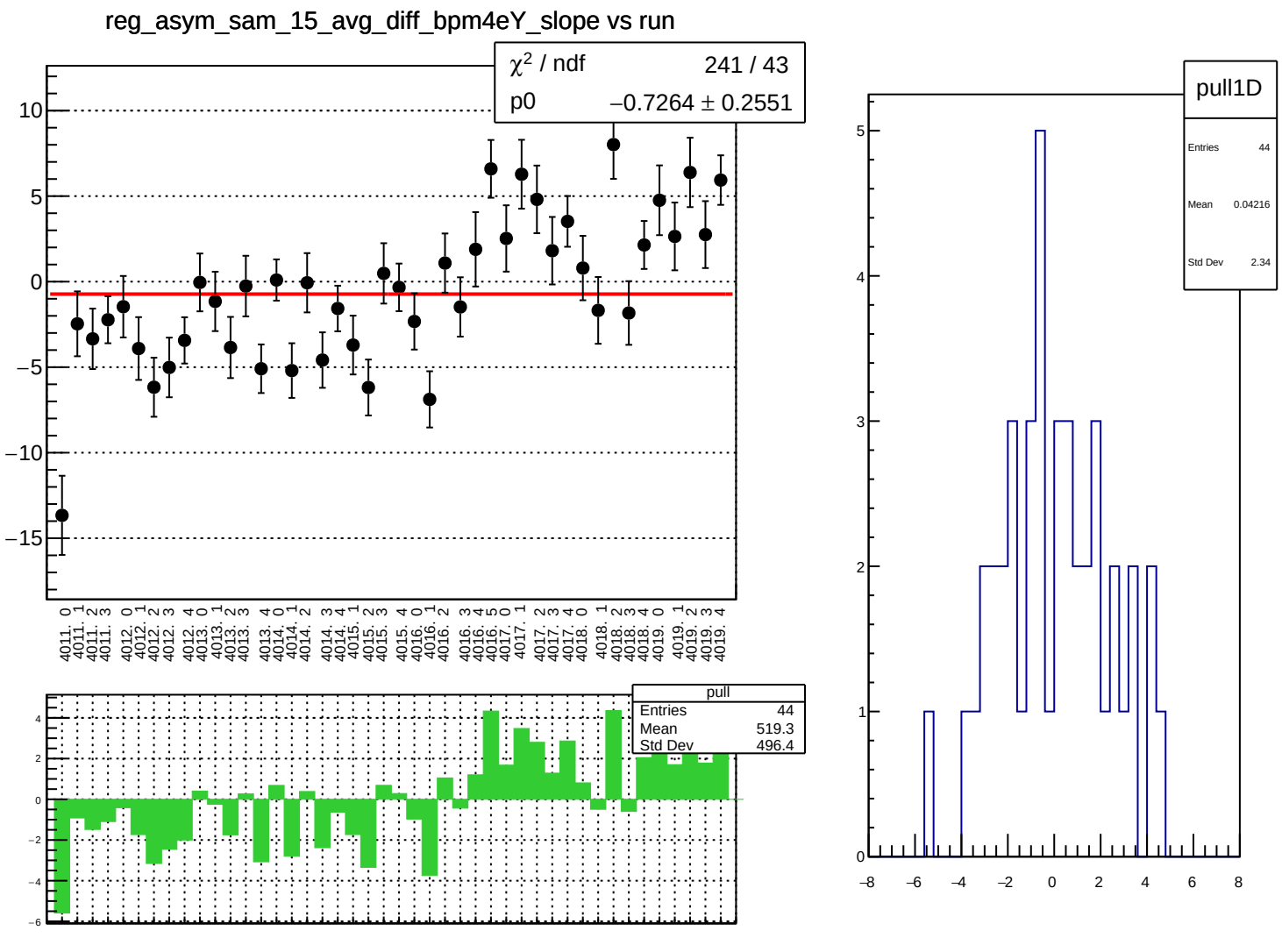

pull1D
Entries 44
Mean 0.3009
Std Dev 3.795

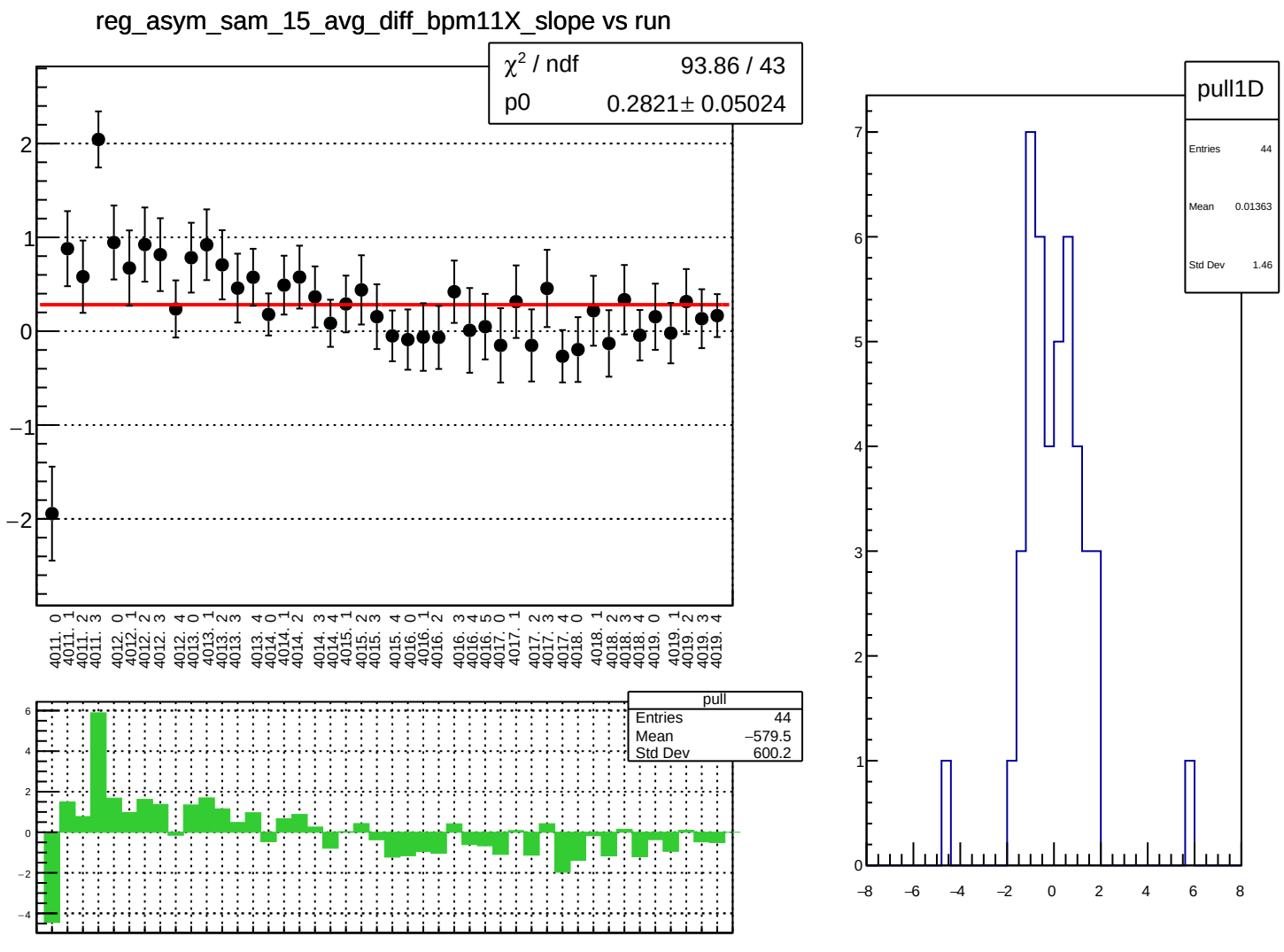

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 28.41 / 43
p0 3.182 ± 0.2051
pull
Entries 44
Mean −41.97
Std Dev 54.9
pull1D
Entries 44
Mean 0.03917
Std Dev 0.8027

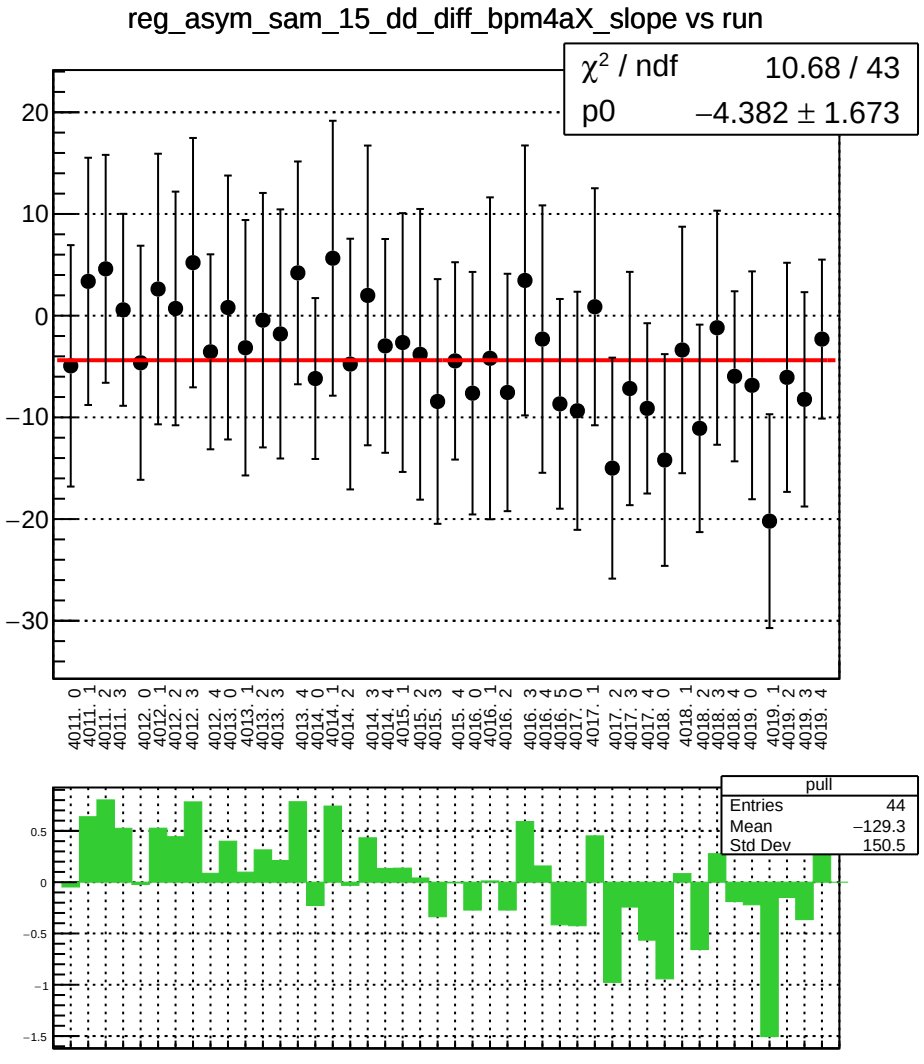

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 184.2 / 43
p0 −9.153 ± 0.1475
pull
Entries 44
Mean 134
Std Dev 107.2

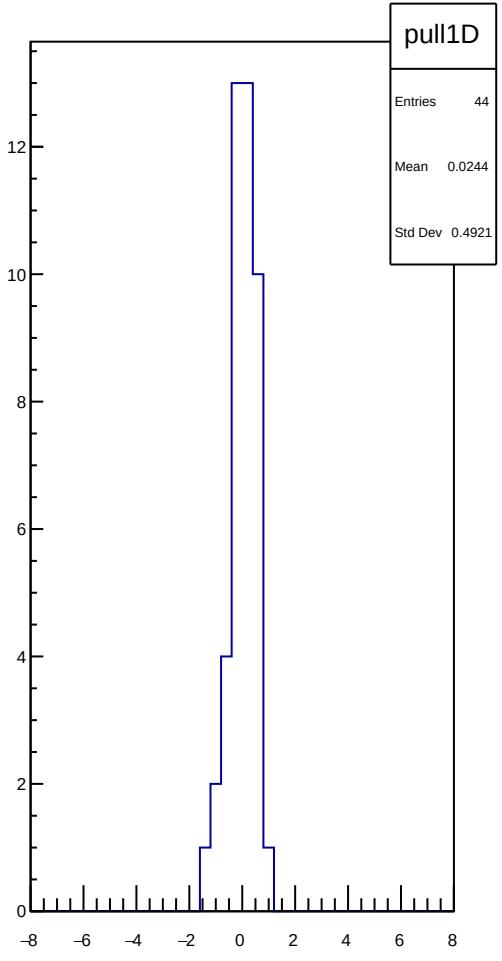

pull1D
Entries 44
Mean −0.08693
Std Dev 2.044

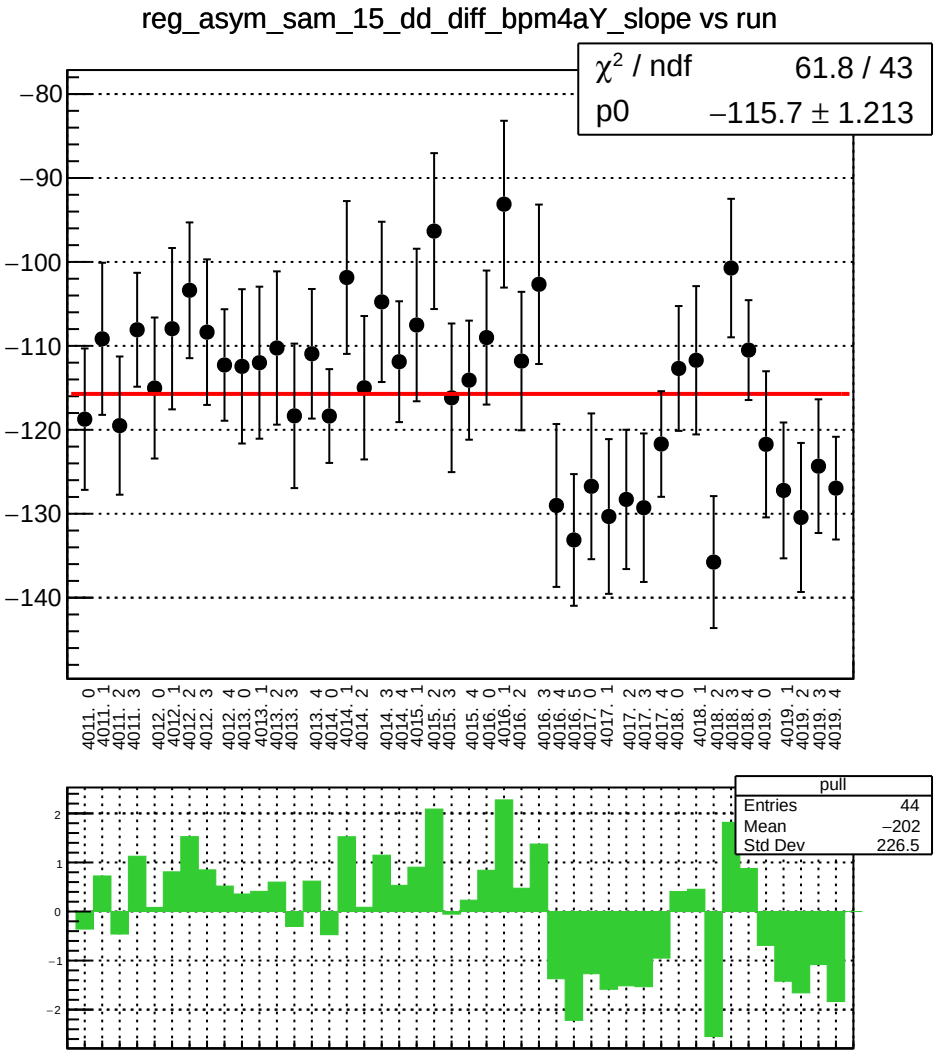

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 7350 / 43
p0 −9.109 ± 0.03338
pull
Entries 44
Mean 166.4
Std Dev 142.3
pull1D
Entries 44
Mean 2.6
Std Dev 3.378

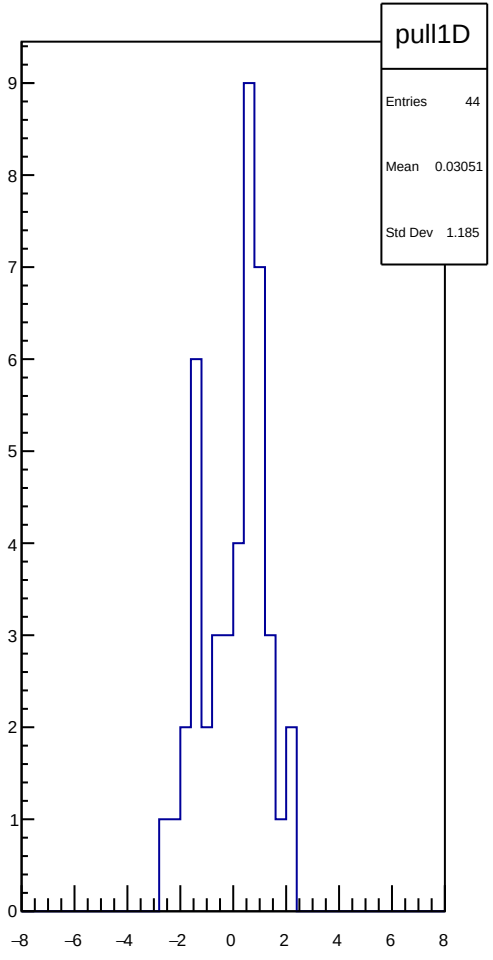

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 241 / 43
p0 −0.7264 ± 0.2551
pull
Entries 44
Mean 519.3
Std Dev 496.4
pull1D
Entries 44
Mean 0.04216
Std Dev 2.34

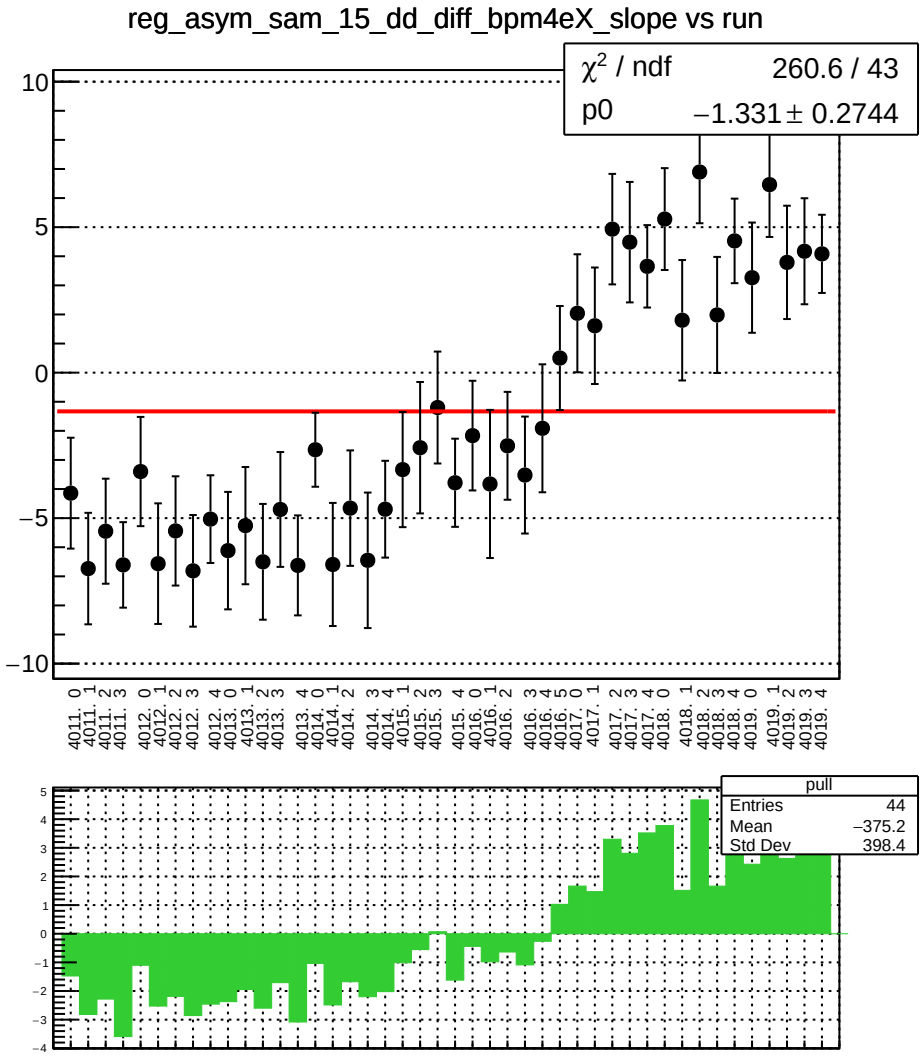

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 93.86 / 43
p0 0.2821± 0.05024
pull
Entries 44
Mean −579.5
Std Dev 600.2
pull1D
Entries 44
Mean 0.01363
Std Dev 1.46

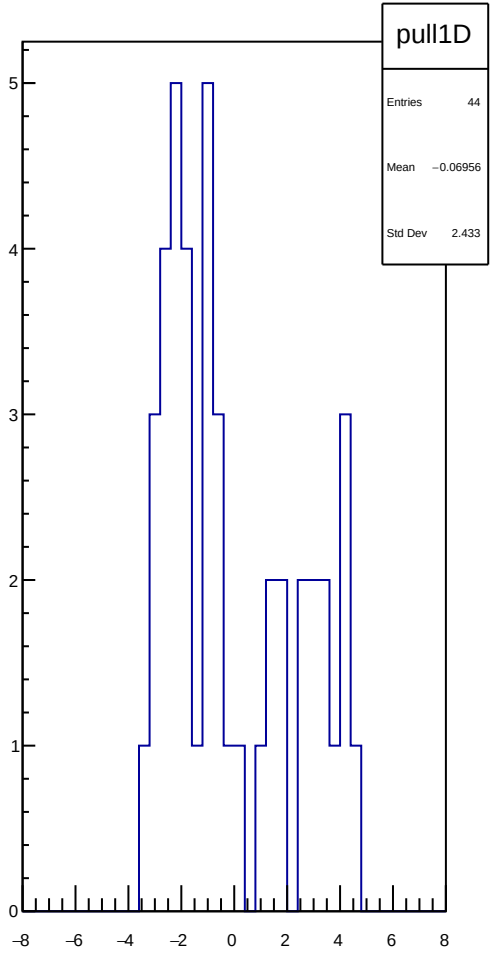

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 10.68 / 43
p0 −4.382 ± 1.673
pull
Entries 44
Mean −129.3
Std Dev 150.5

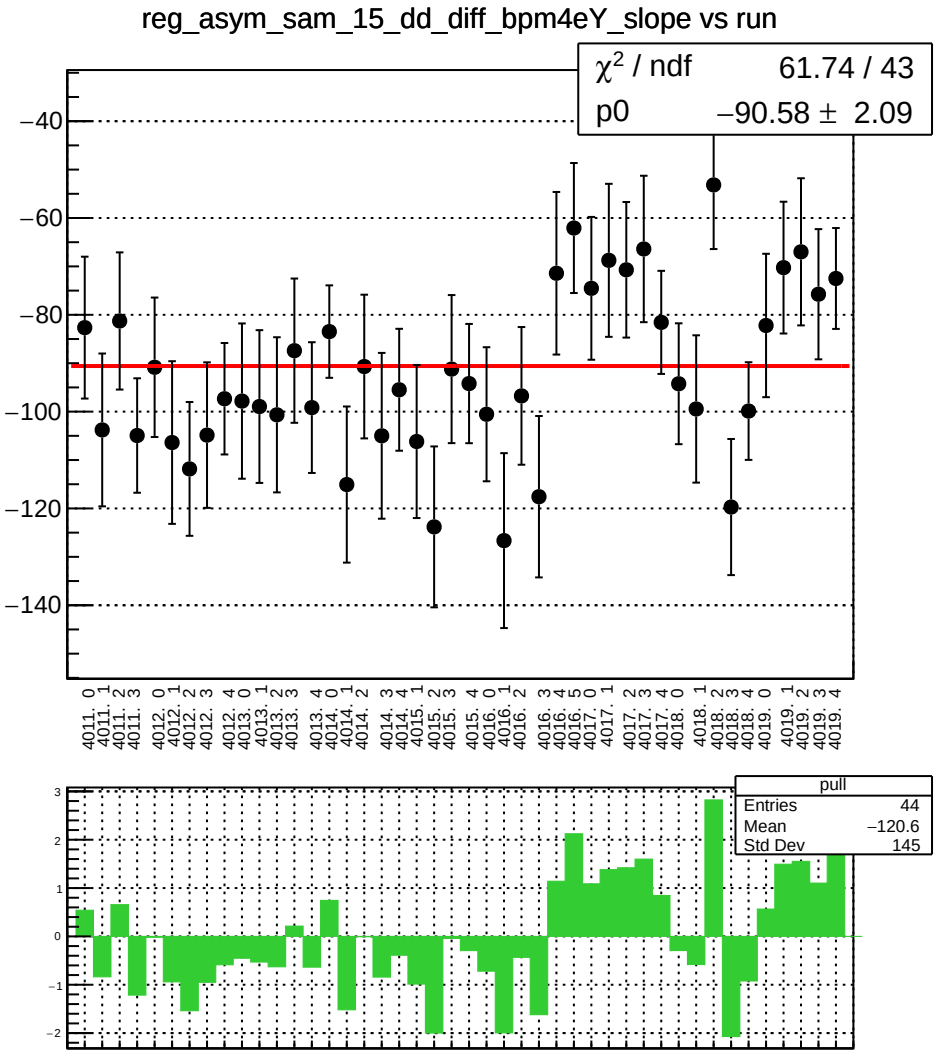

pull1D
Entries 44
Mean 0.0244
Std Dev 0.4921

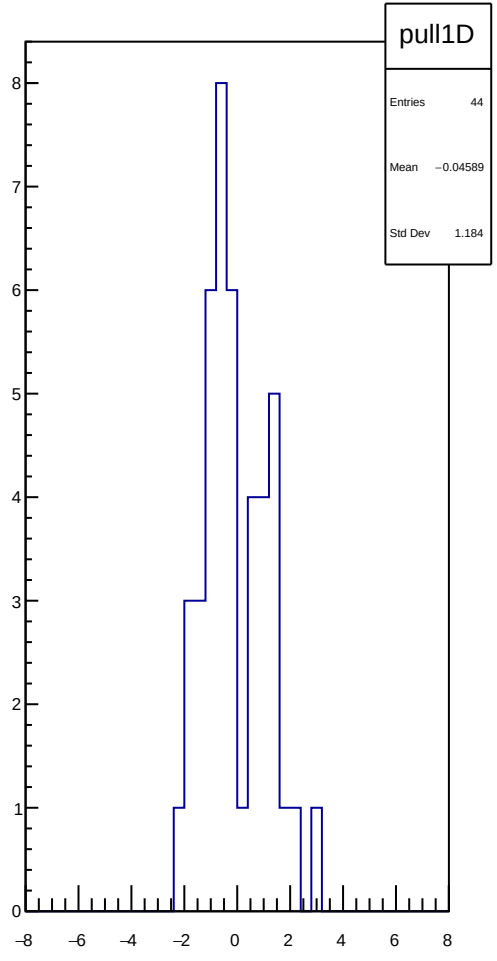

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.8 / 43
p0 −115.7 ± 1.213
−80
−90
−100
−110
−120
−130
−140
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −202
Std Dev 226.5
2
1
0
−1
−2

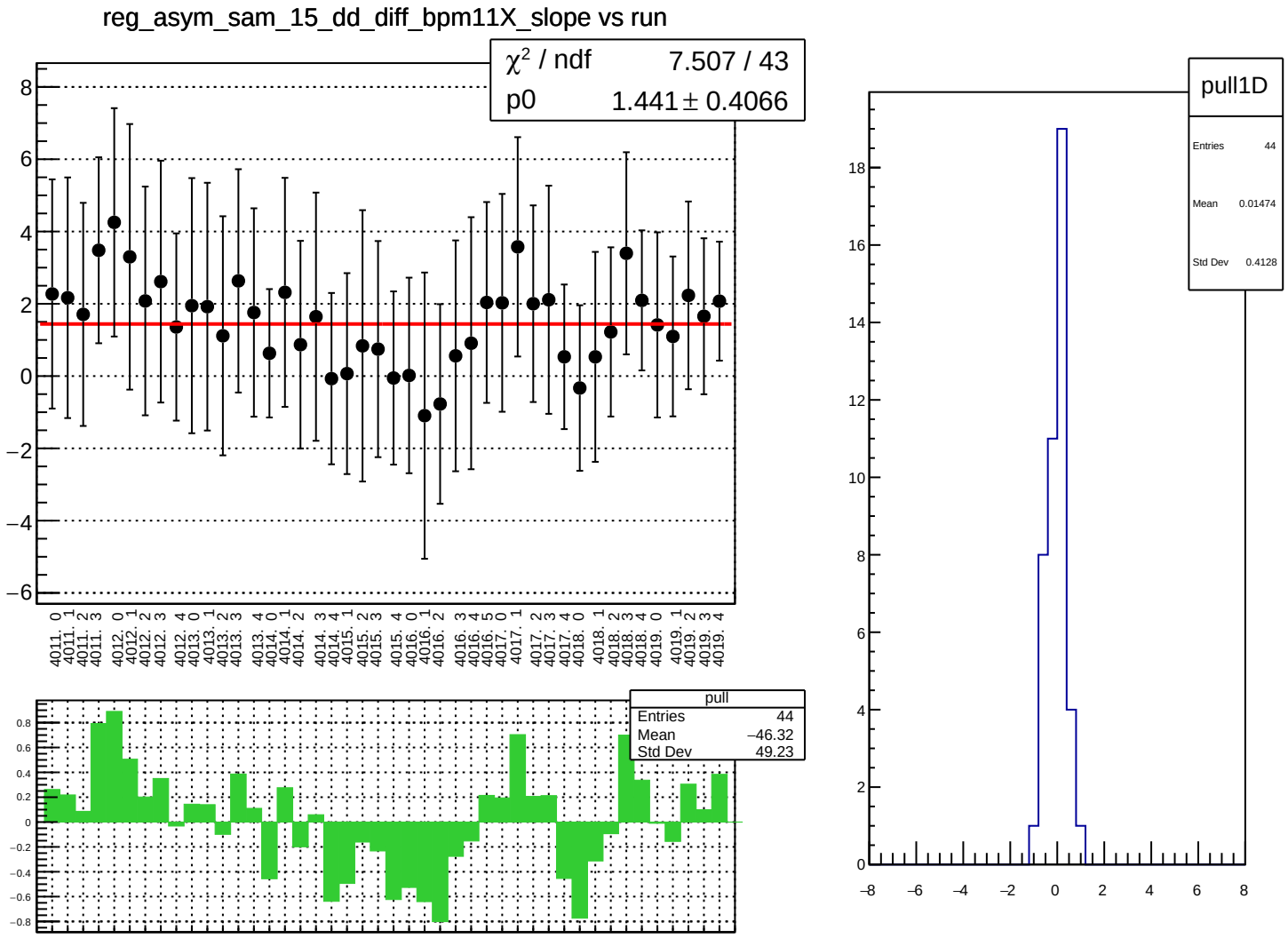

pull1D
Entries 44
Mean 0.03051
Std Dev 1.185
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

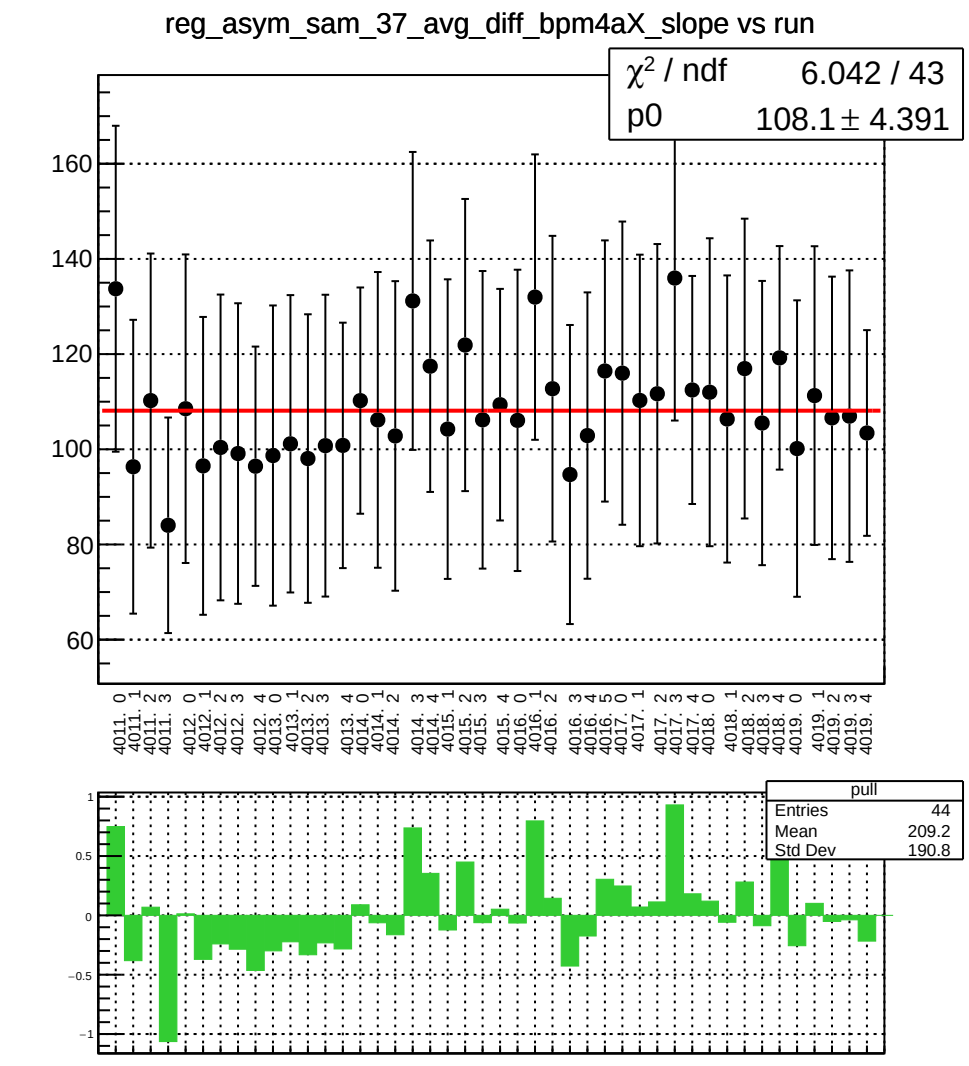

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 260.6 / 43
p0 −1.331 ± 0.2744
pull
Entries 44
Mean −375.2
Std Dev 398.4

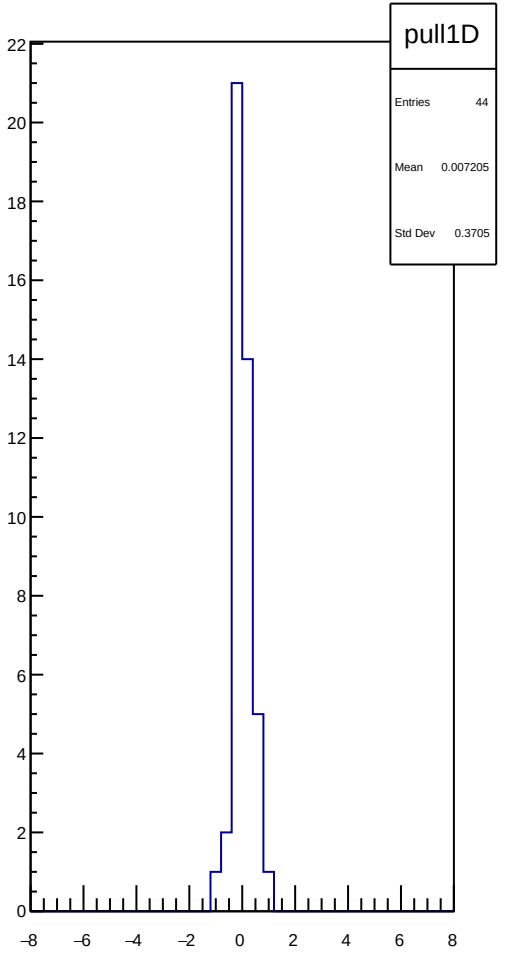

pull1D
Entries 44
Mean −0.06956
Std Dev 2.433

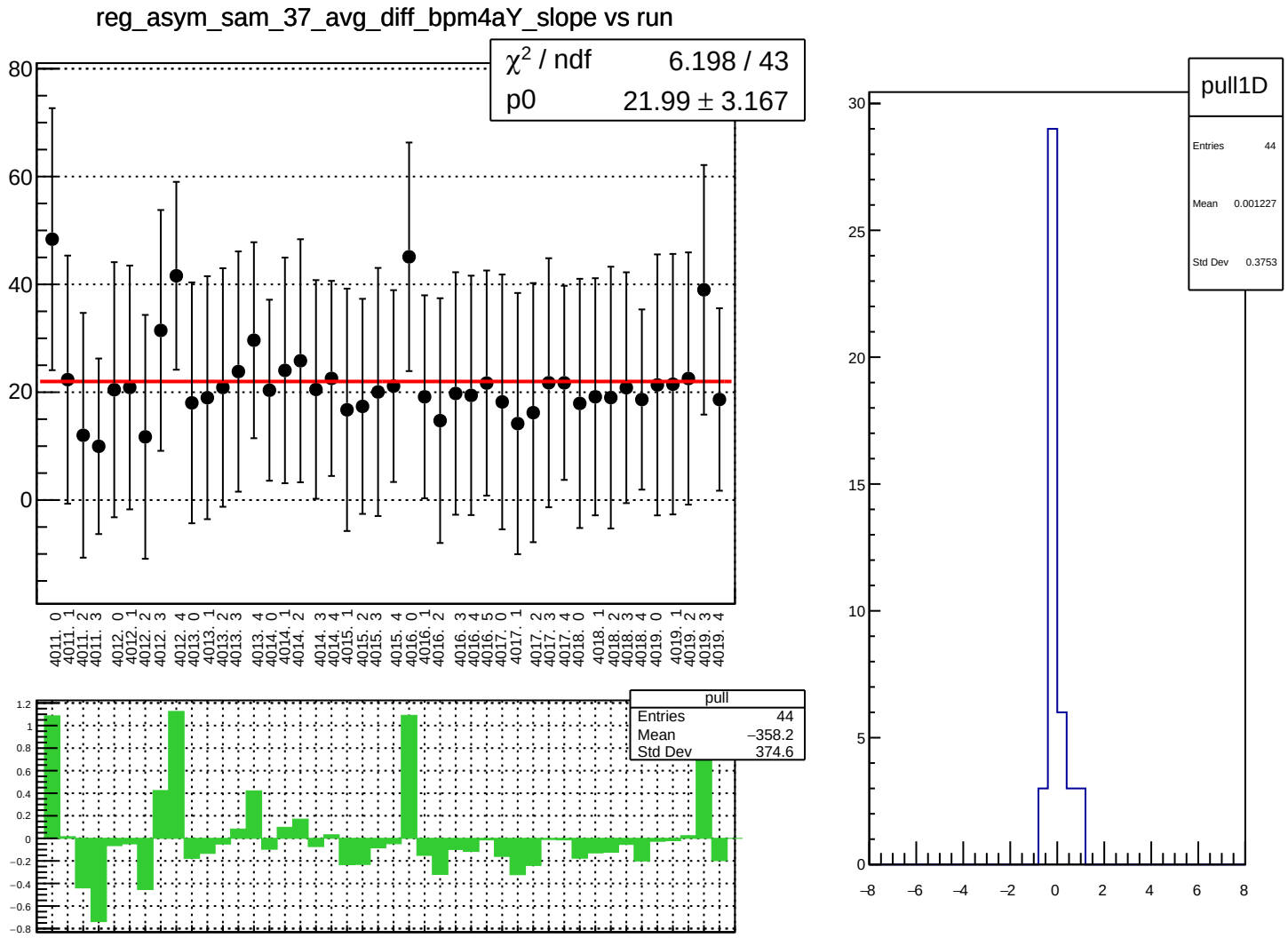

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 61.74 / 43
p0 −90.58 ± 2.09
pull
Entries 44
Mean −120.6
Std Dev 145

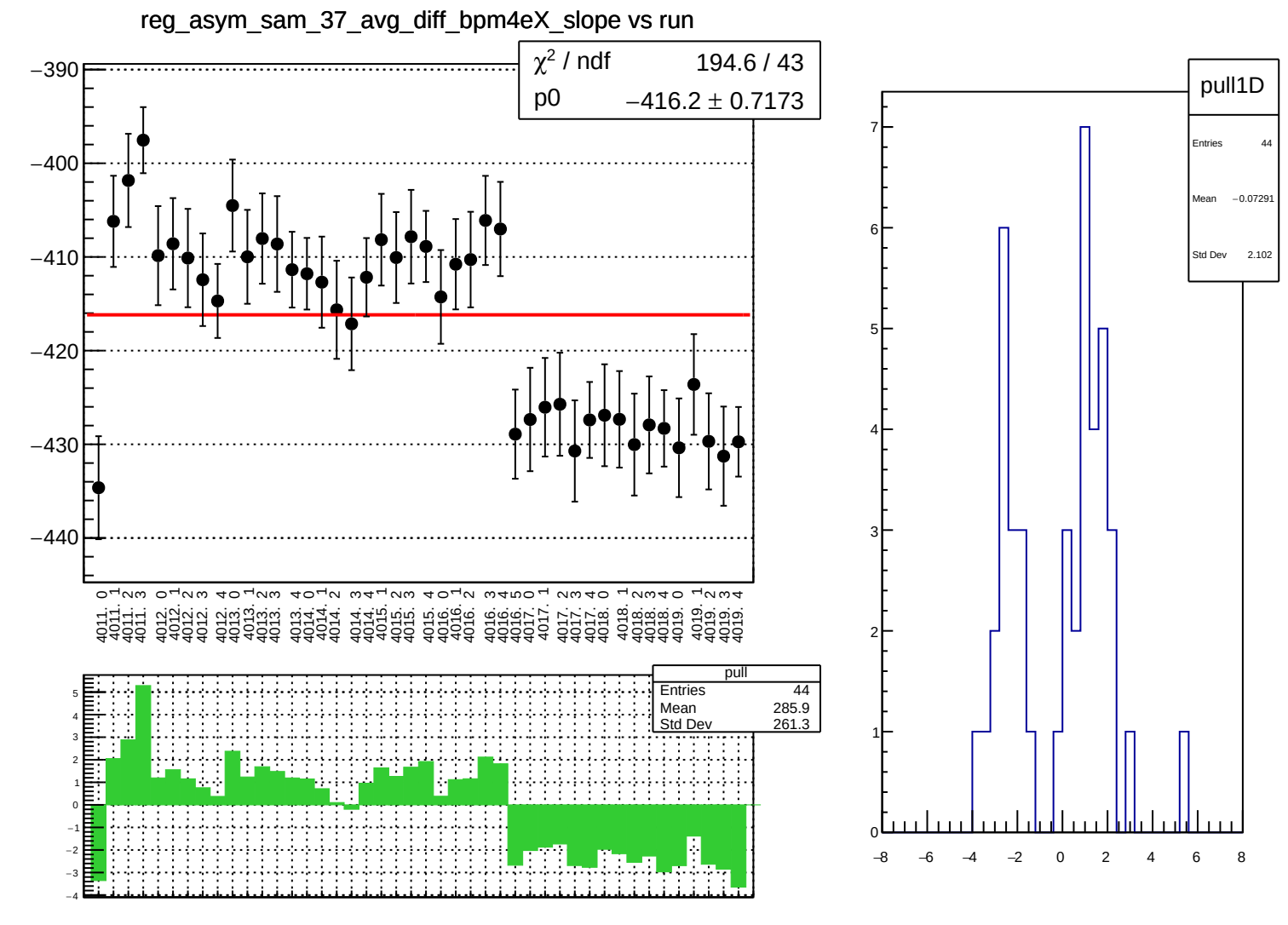

pull1D
Entries 44
Mean −0.04589
Std Dev 1.184

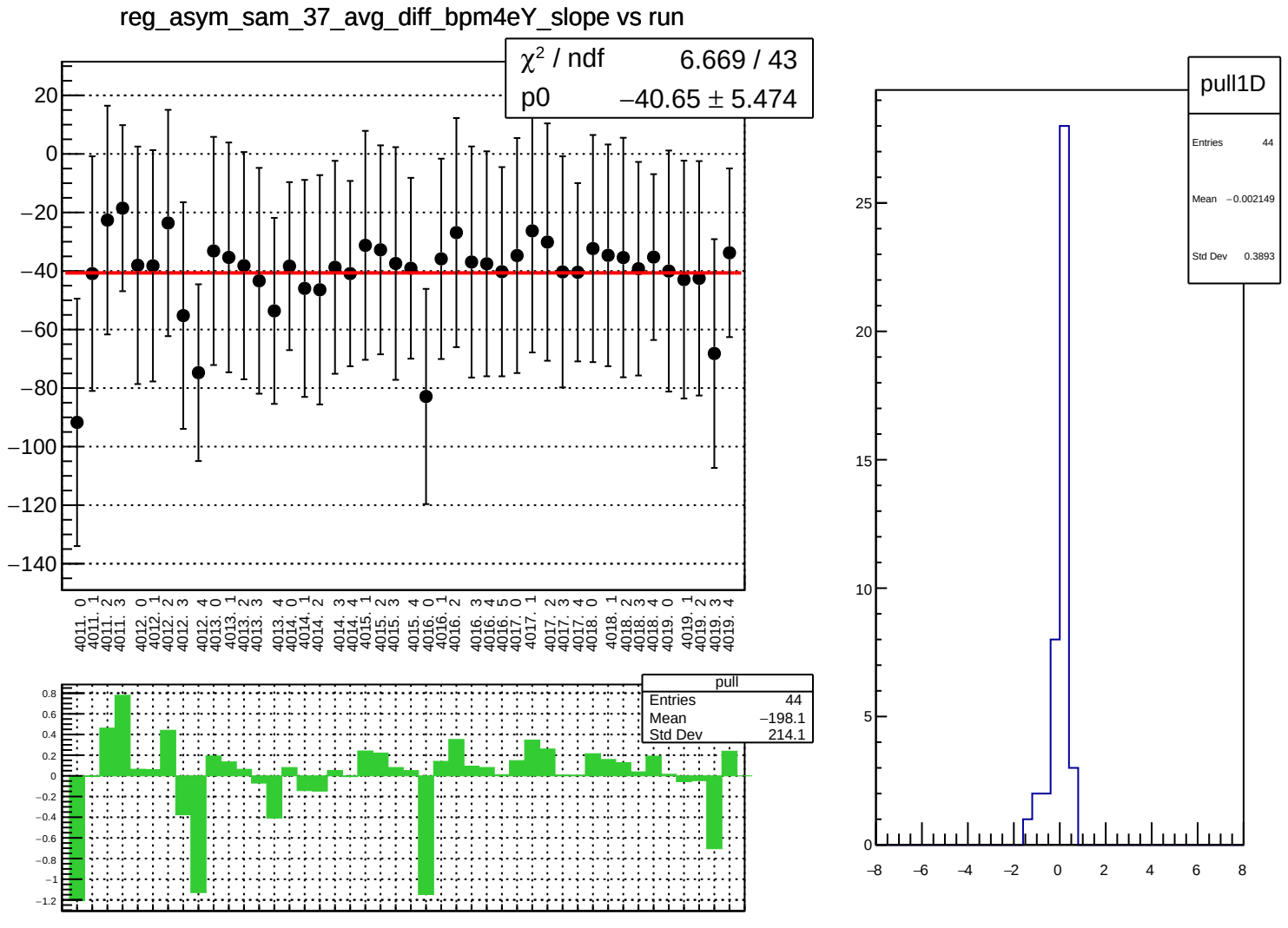

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 7.507 / 43
p0 1.441 ± 0.4066
pull
Entries 44
Mean −46.32
Std Dev 49.23
pull1D
Entries 44
Mean 0.01474
Std Dev 0.4128

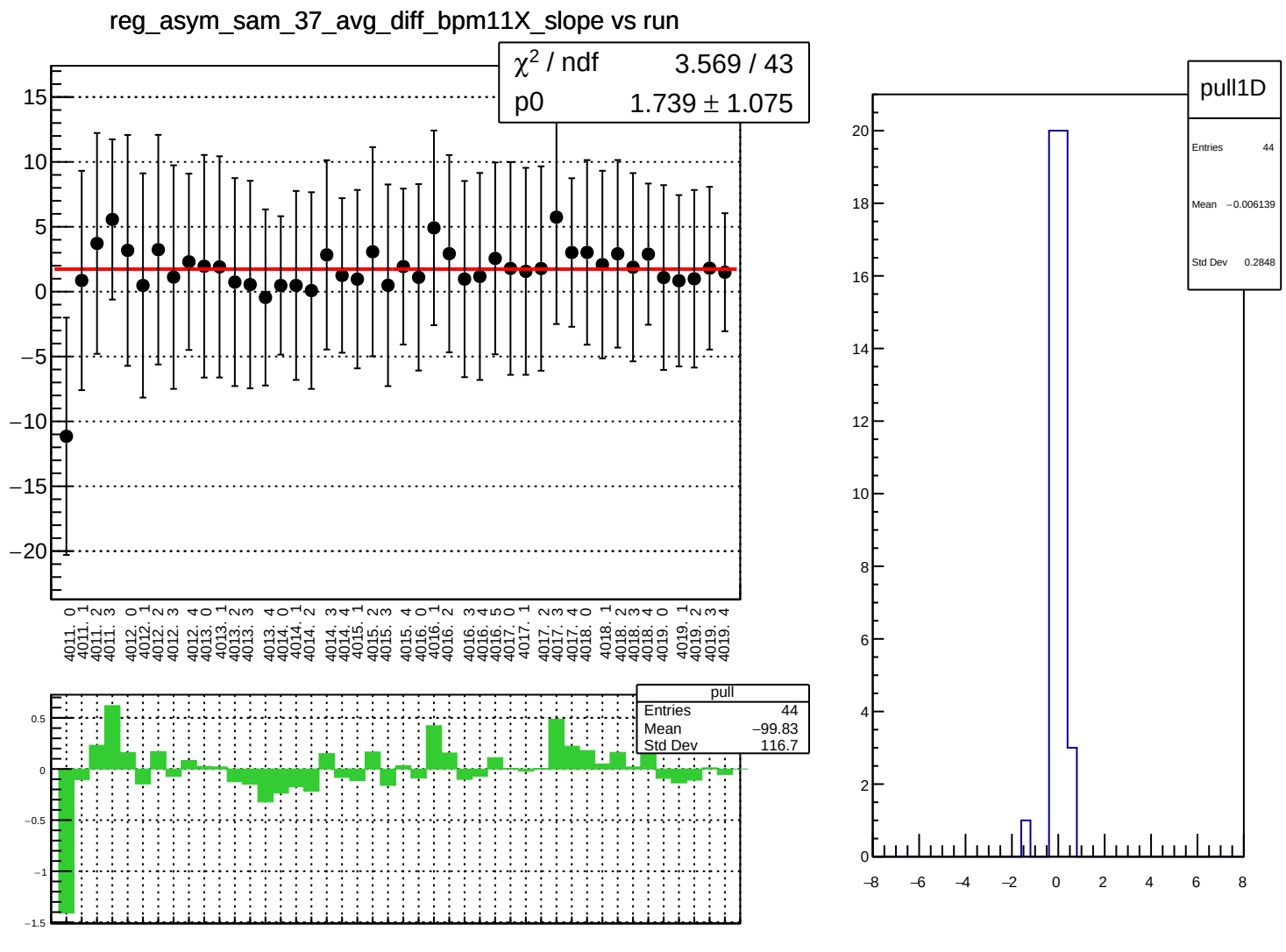

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.042 / 43
p0 108.1 ± 4.391
160
140
120
100
80
60
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 209.2
Std Dev 190.8
1
0.5
0
−0.5
−1

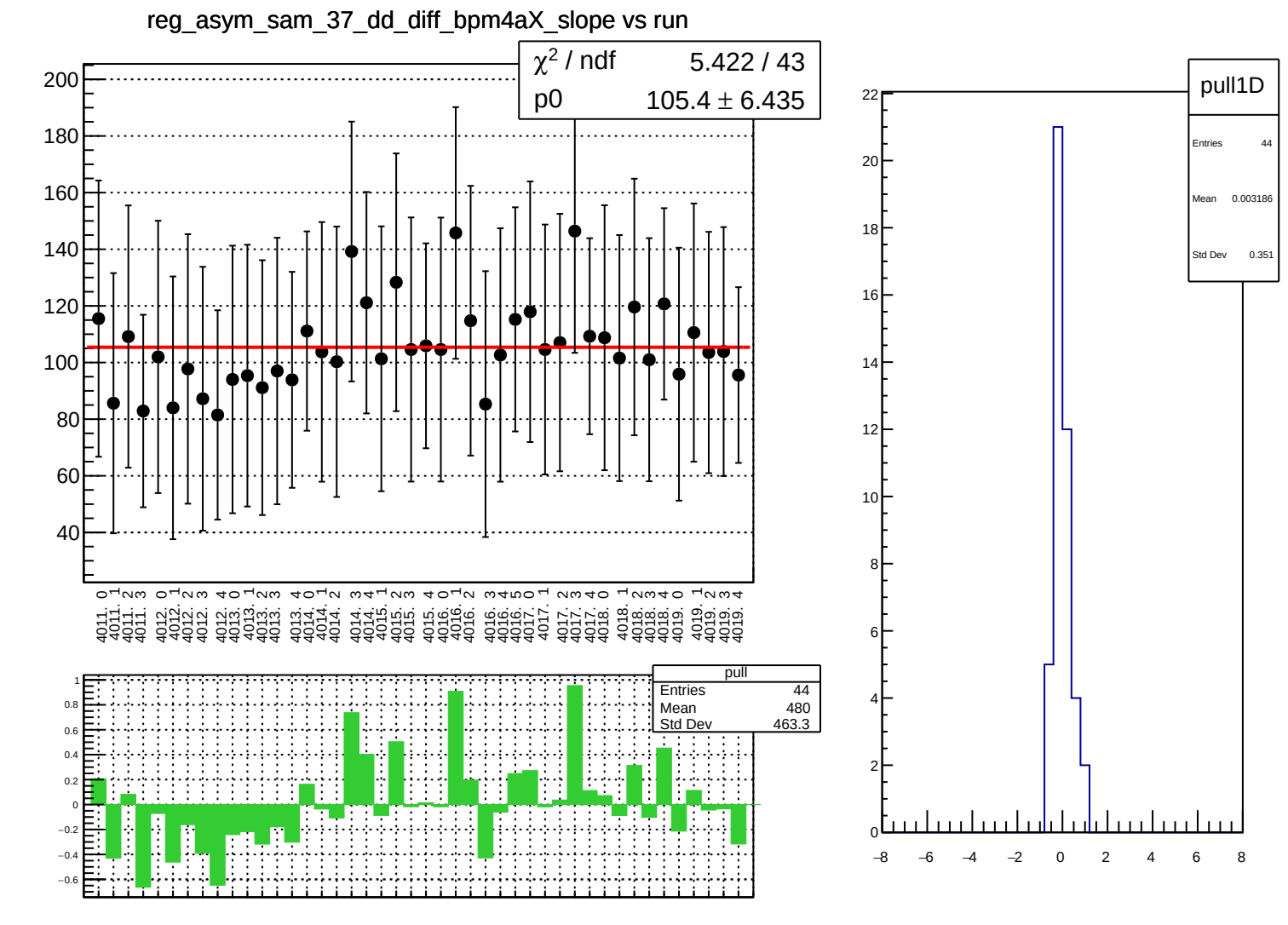

pull1D
Entries 44
Mean 0.007205
Std Dev 0.3705
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

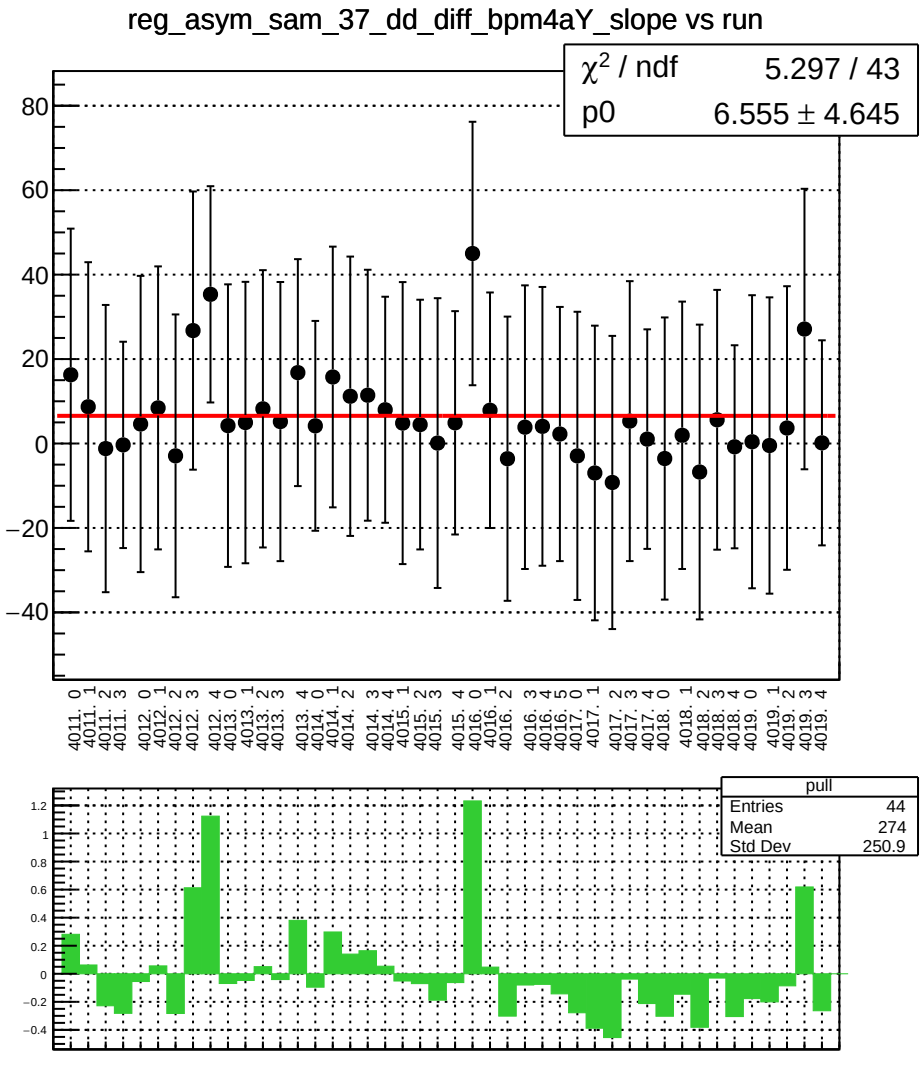

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.198 / 43
p0 21.99 ± 3.167
pull
Entries 44
Mean −358.2
Std Dev 374.6
pull1D
Entries 44
Mean 0.001227
Std Dev 0.3753

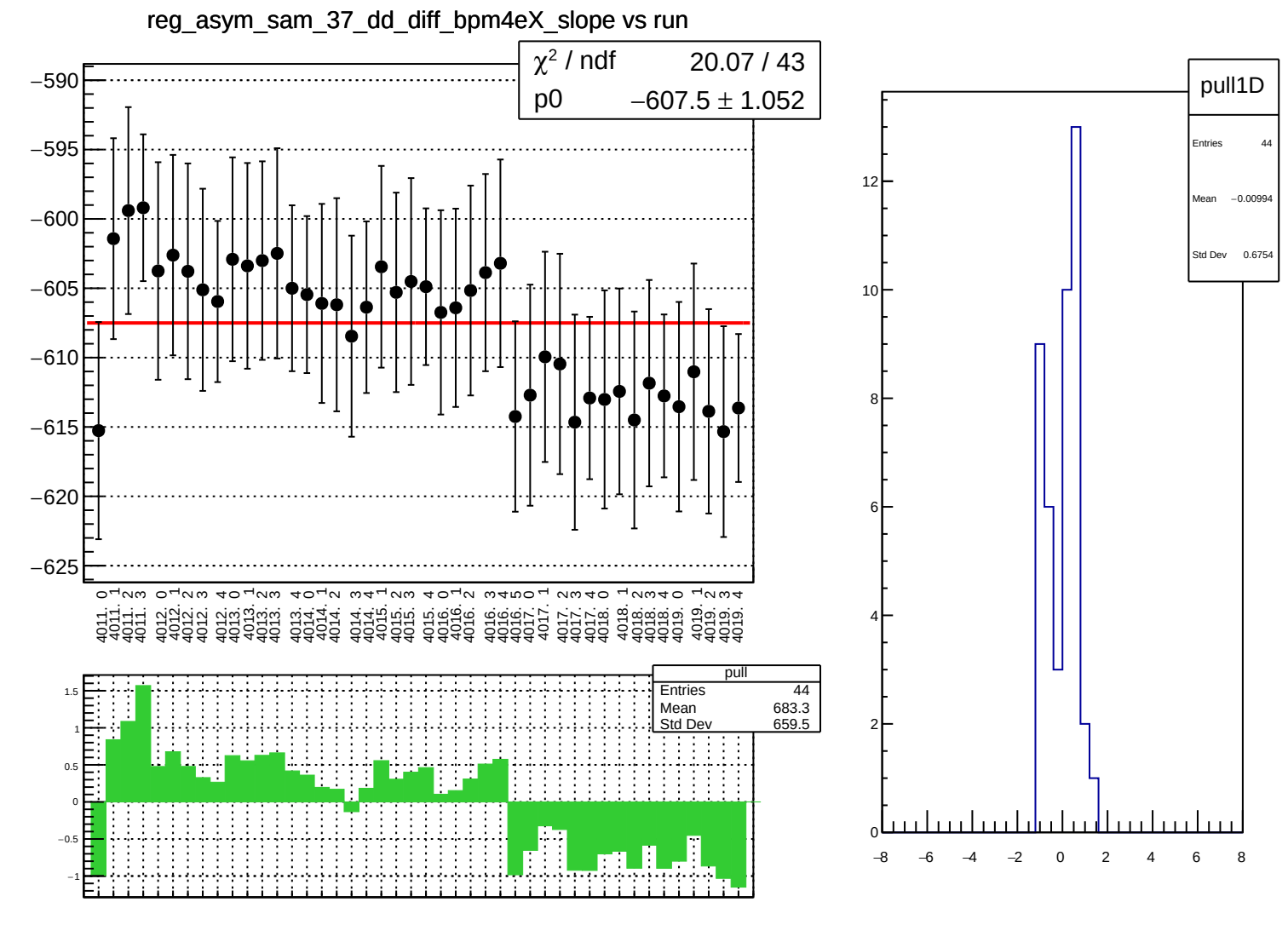

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 194.6 / 43
p0 −416.2 ± 0.7173
−390
−400
−410
−420
−430
−440
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 285.9
Std Dev 261.3
pull1D
Entries 44
Mean −0.07291
Std Dev 2.102

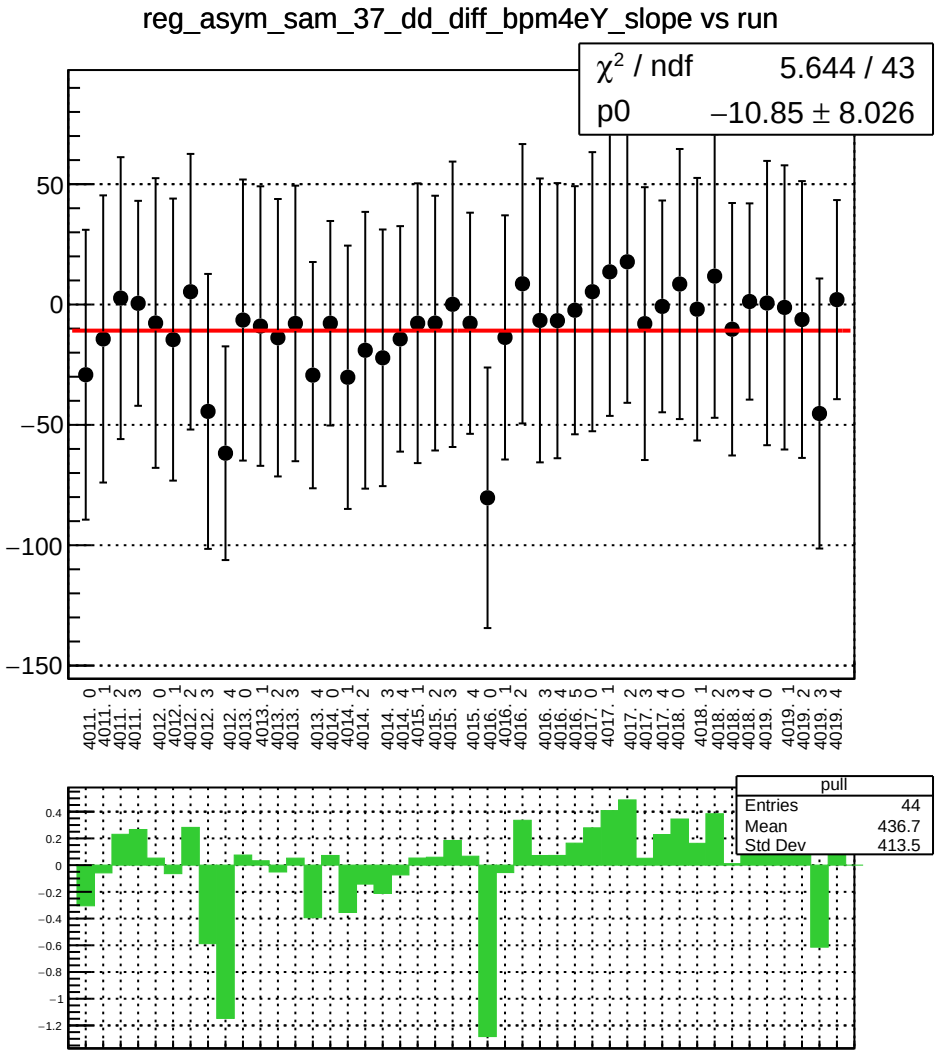

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.669 / 43
p0 −40.65 ± 5.474
pull
Entries 44
Mean −198.1
Std Dev 214.1
pull1D
Entries 44
Mean −0.002149
Std Dev 0.3893

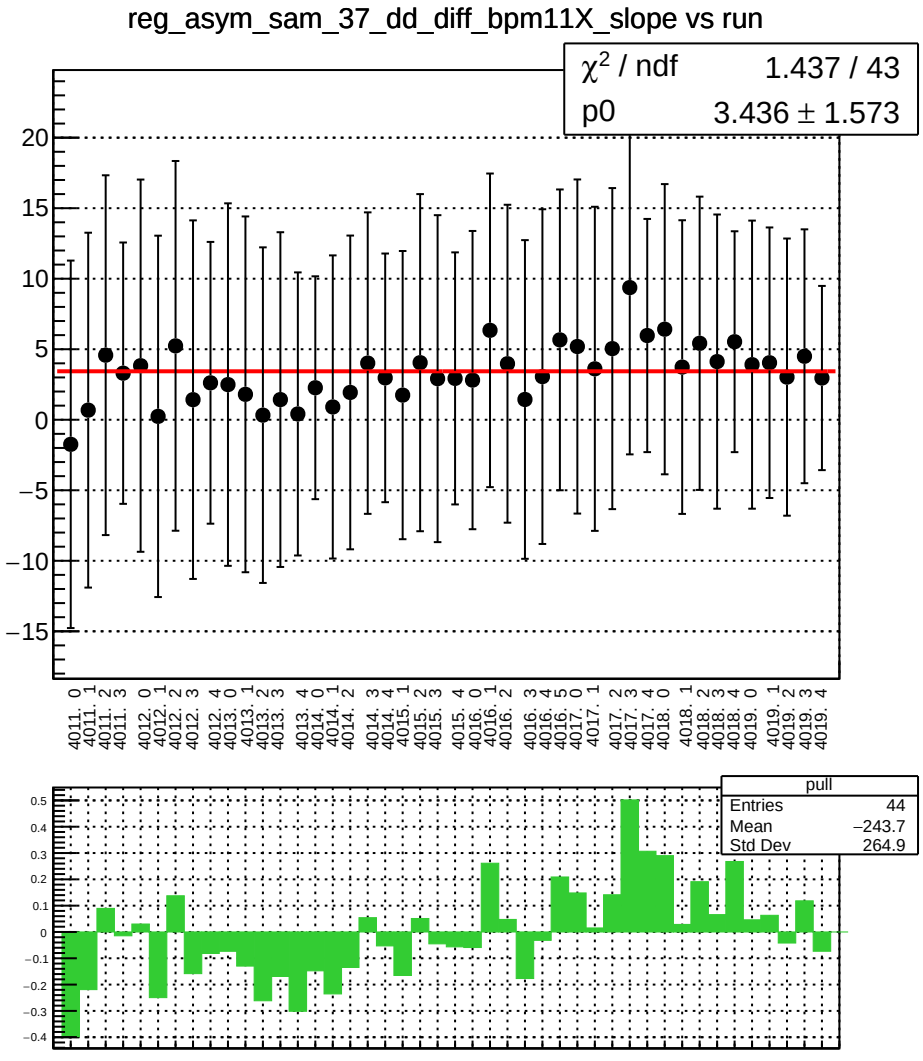

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 3.569 / 43
p0 1.739 ± 1.075
pull
Entries 44
Mean −99.83
Std Dev 116.7
pull1D
Entries 44
Mean −0.006139
Std Dev 0.2848

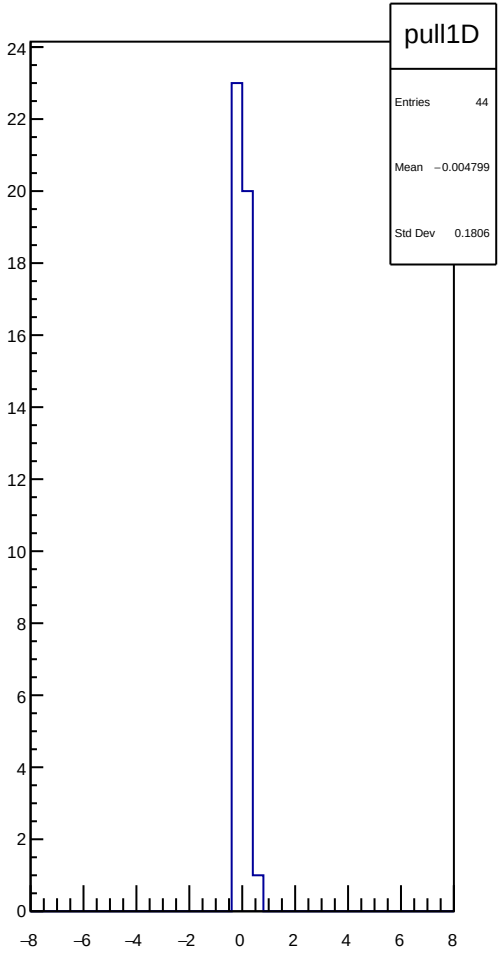

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.422 / 43
p0 105.4 ± 6.435
pull
Entries 44
Mean 480
Std Dev 463.3
pull1D
Entries 44
Mean 0.003186
Std Dev 0.351

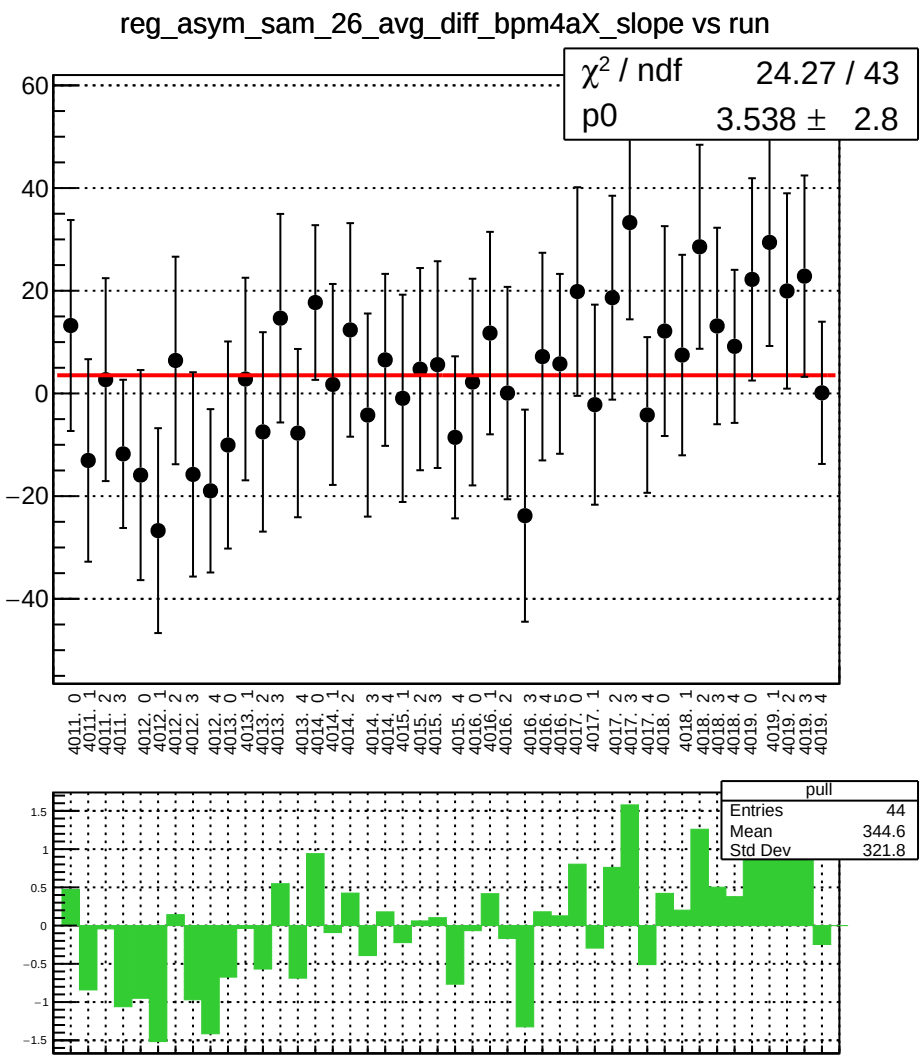

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.297 / 43
p0 6.555 ± 4.645
80
60
40
20
0
−20
−40
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 274
Std Dev 250.9
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 44
Mean −0.00482
Std Dev 0.3469
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

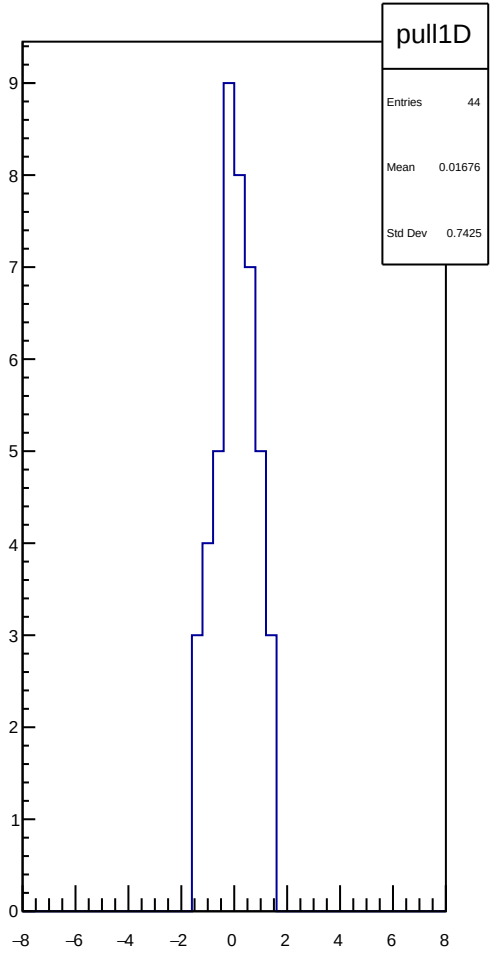

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.07 / 43
p0 −607.5 ± 1.052
−590
−595
−600
−605
−610
−615
−620
−625
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4016. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 683.3
Std Dev 659.5
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 44
Mean −0.00994
Std Dev 0.6754
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

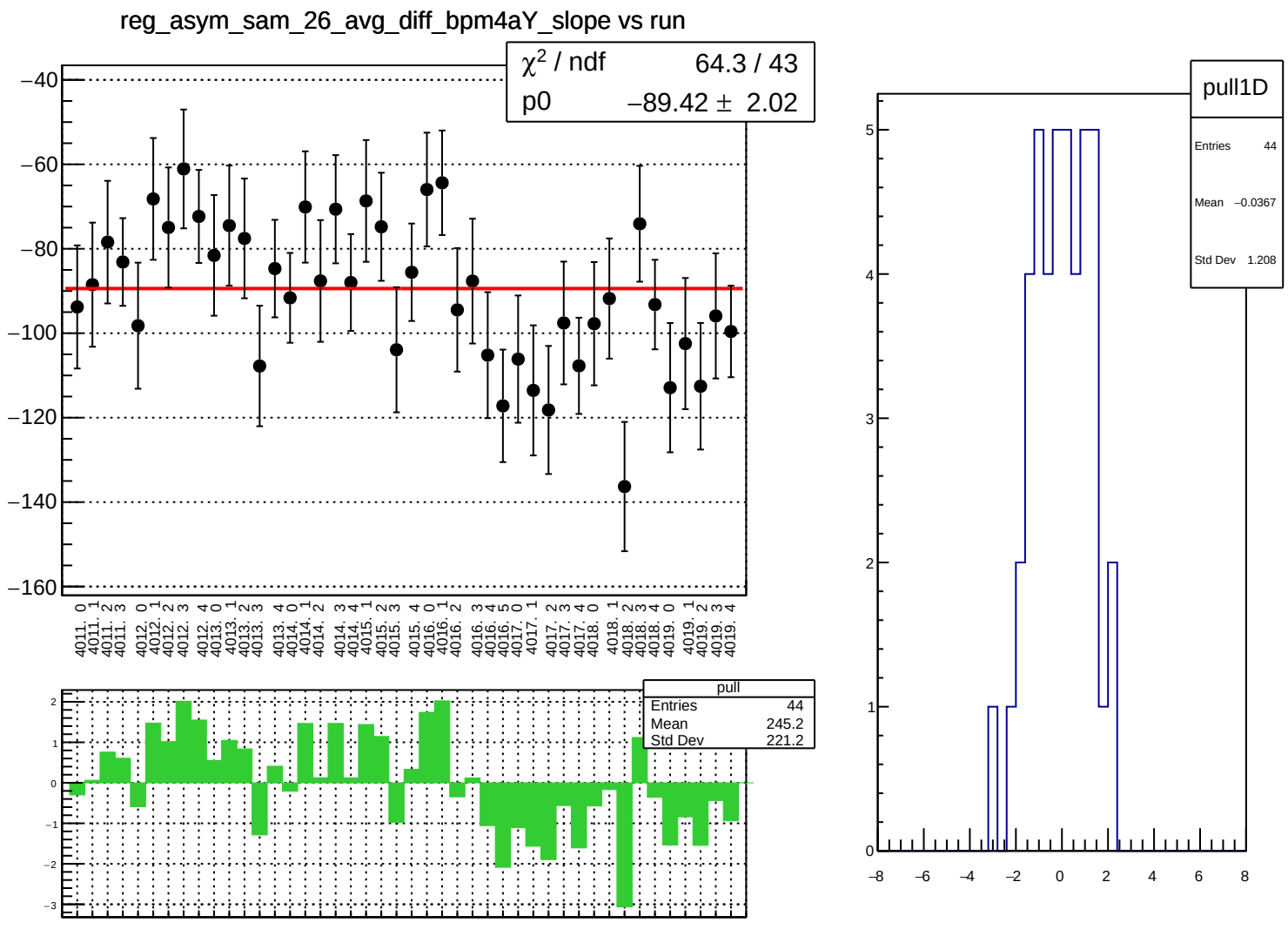

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.644 / 43
p0 −10.85 ± 8.026
50
0
−50
−100
−150
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 436.7
Std Dev 413.5
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 44
Mean 0.003131
Std Dev 0.3581
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

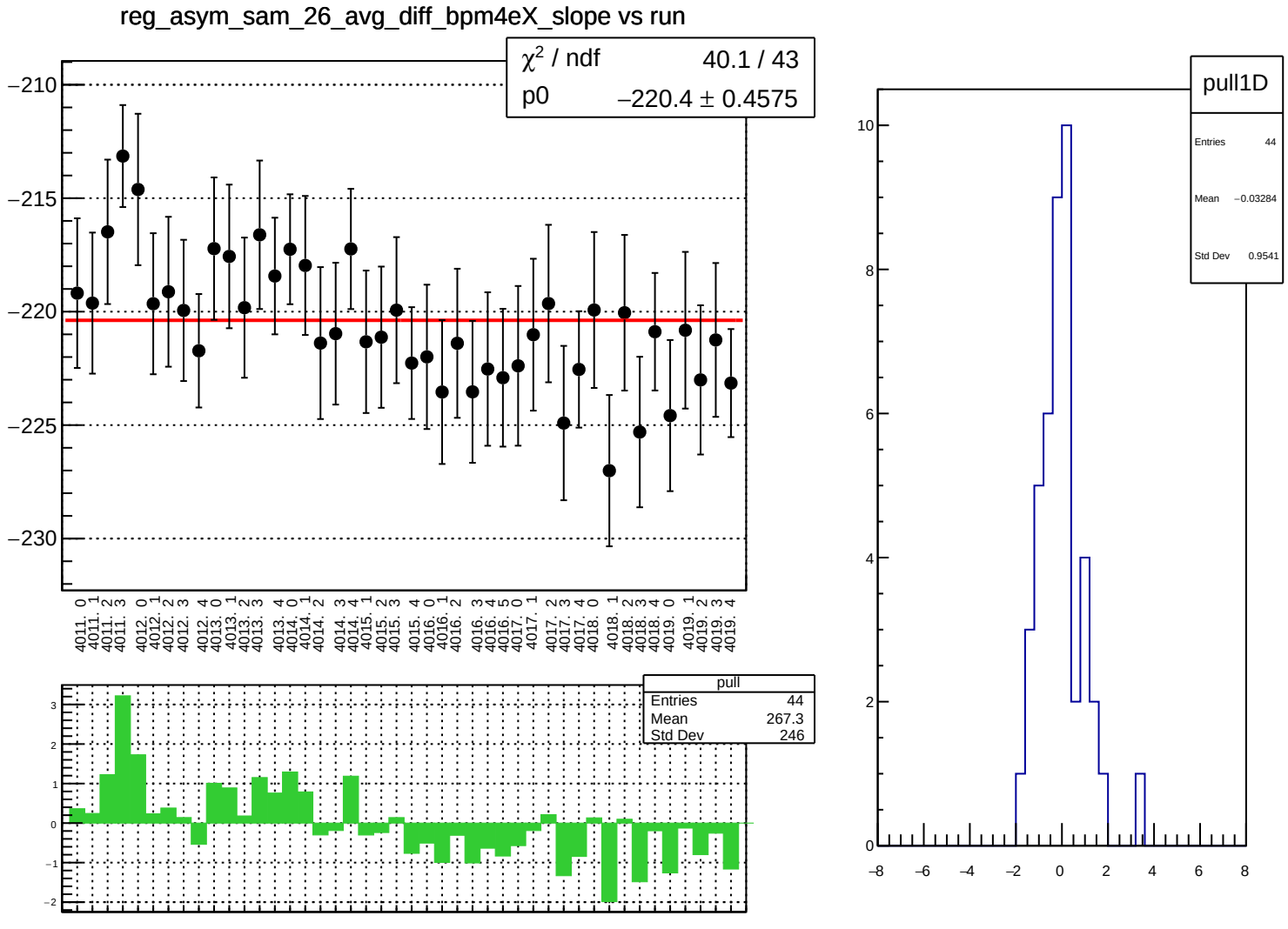

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 1.437 / 43
p0 3.436 ± 1.573
pull
Entries 44
Mean −243.7
Std Dev 264.9

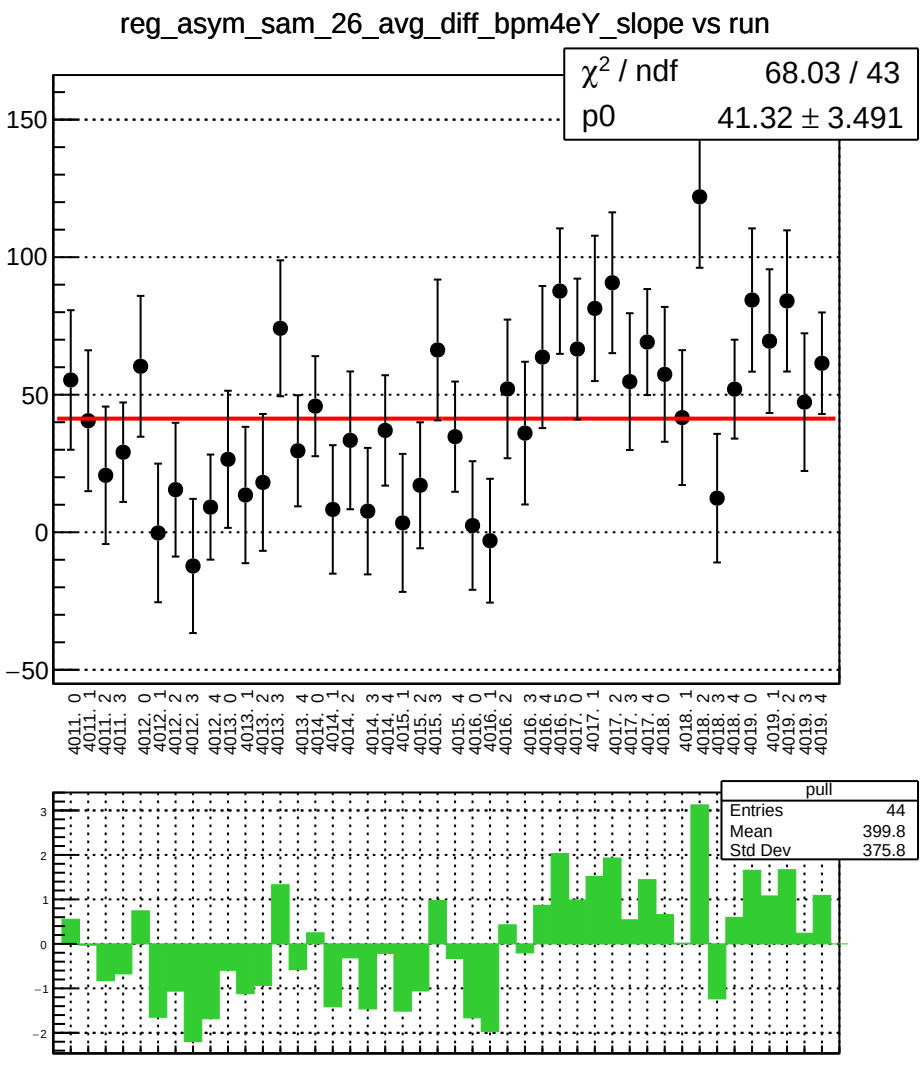

pull1D
Entries 44
Mean −0.004799
Std Dev 0.1806

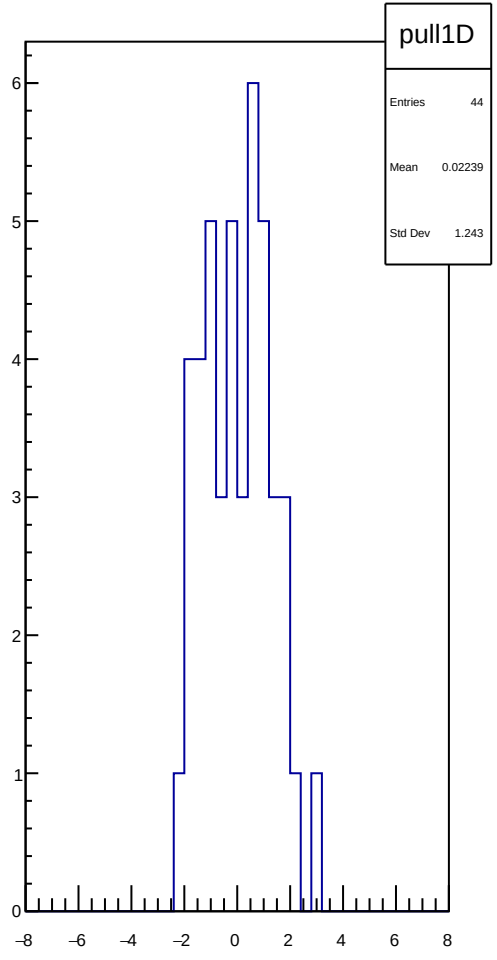

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 24.27 / 43
p0 3.538 ± 2.8
pull
Entries 44
Mean 344.6
Std Dev 321.8

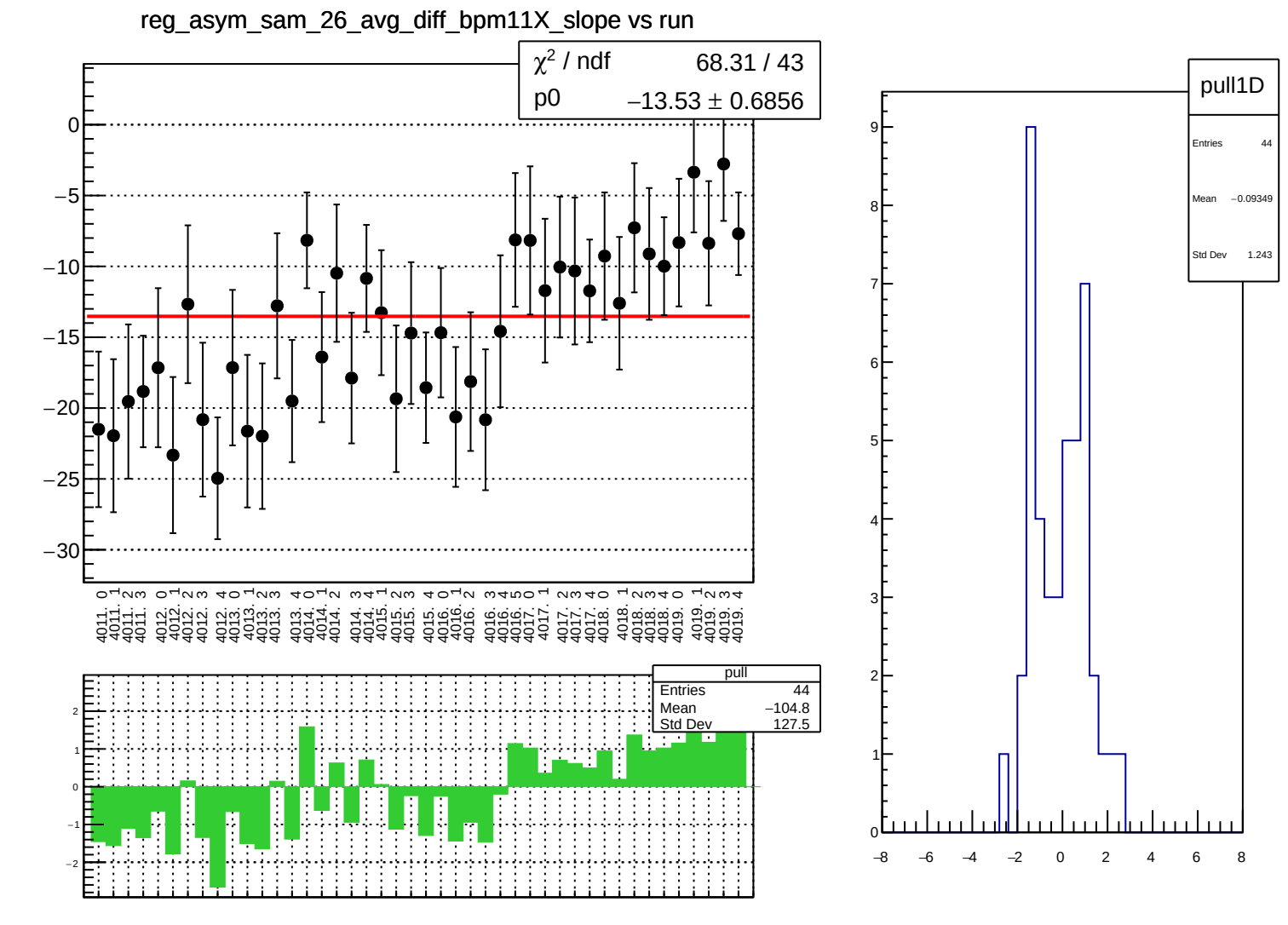

pull1D
Entries 44
Mean 0.01676
Std Dev 0.7425

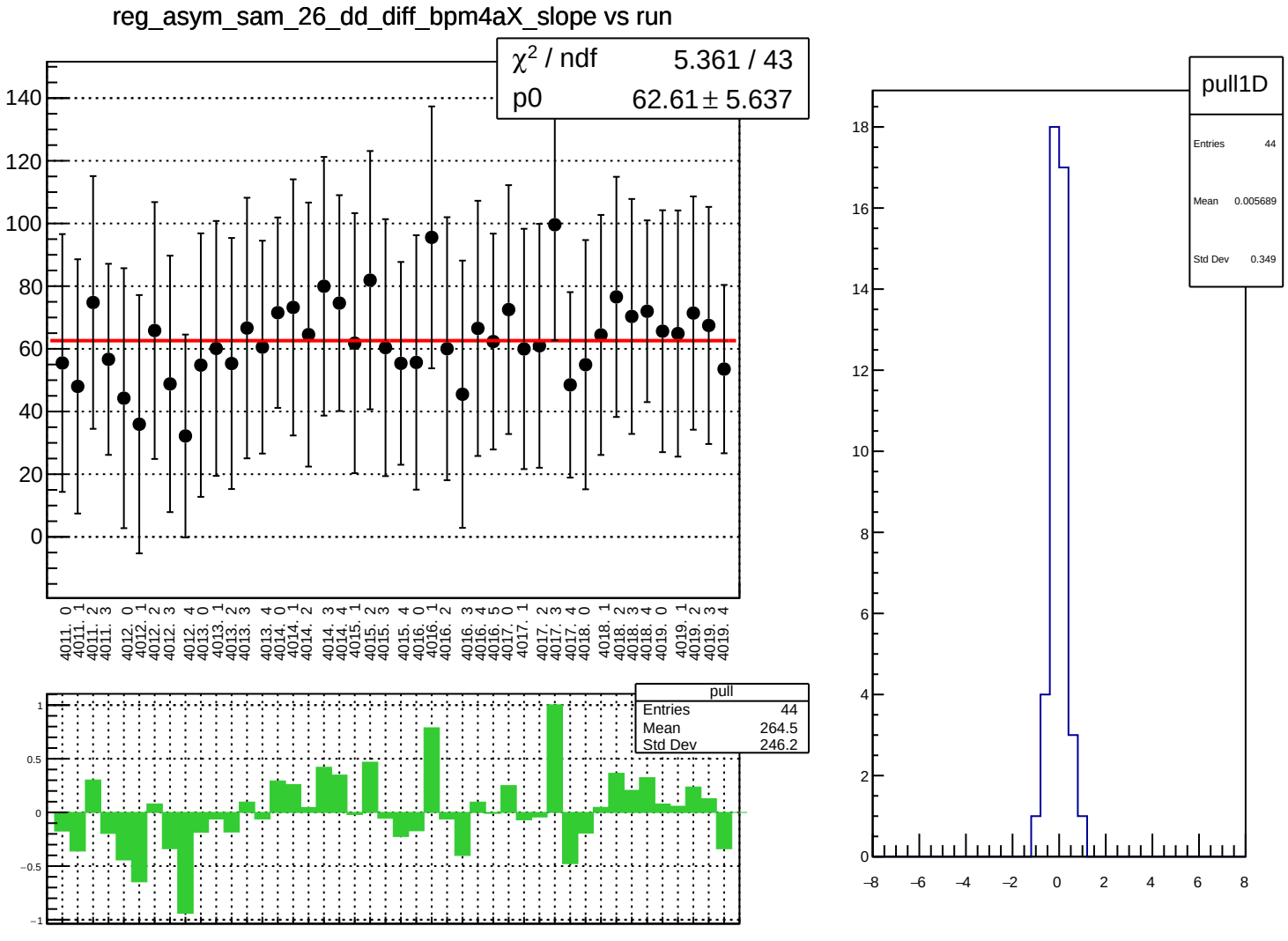

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 64.3 / 43
p0 −89.42 ± 2.02
−40
−60
−80
−100
−120
−140
−160
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 245.2
Std Dev 221.2
2
1
0
−1
−2
−3
pull1D
Entries 44
Mean −0.0367
Std Dev 1.208
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

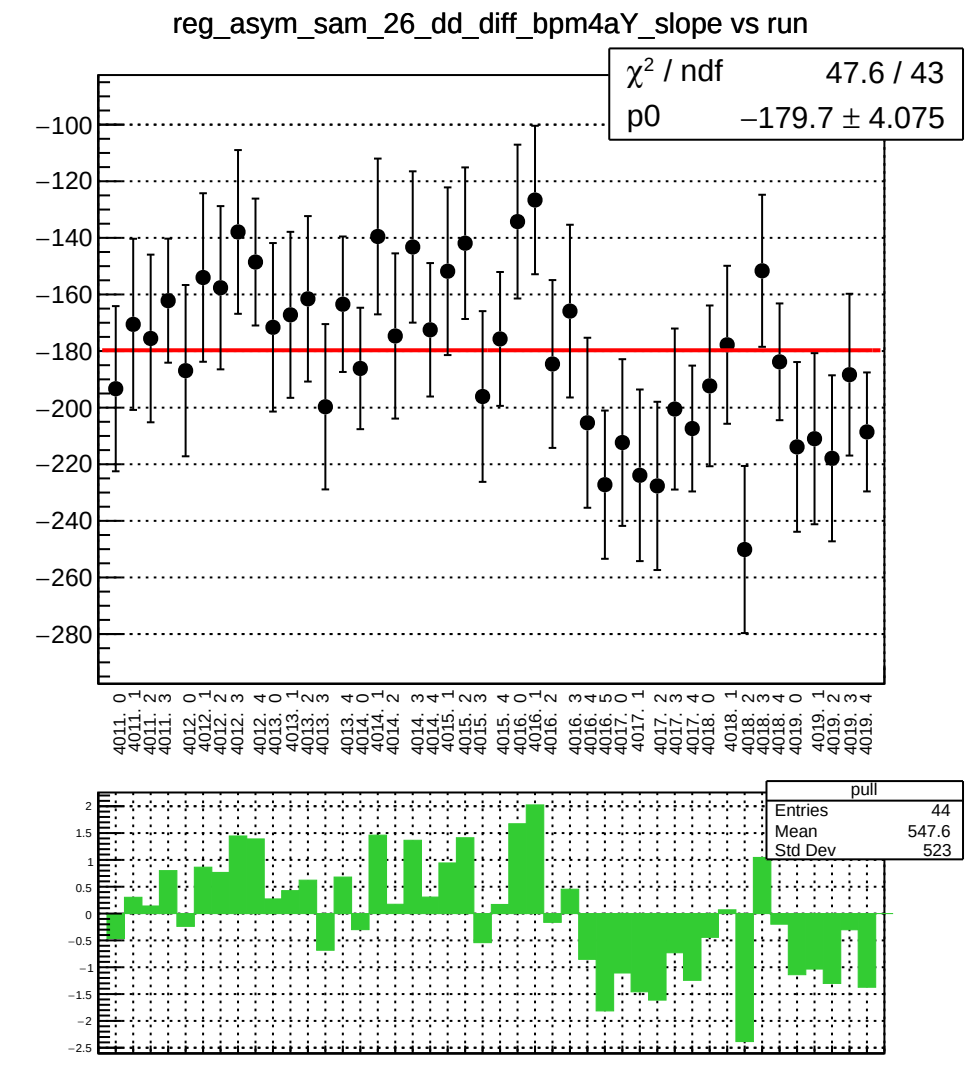

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.1 / 43
p0 −220.4 ± 0.4575
−210
−215
−220
−225
−230
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 267.3
Std Dev 246
3
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.03284
Std Dev 0.9541
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

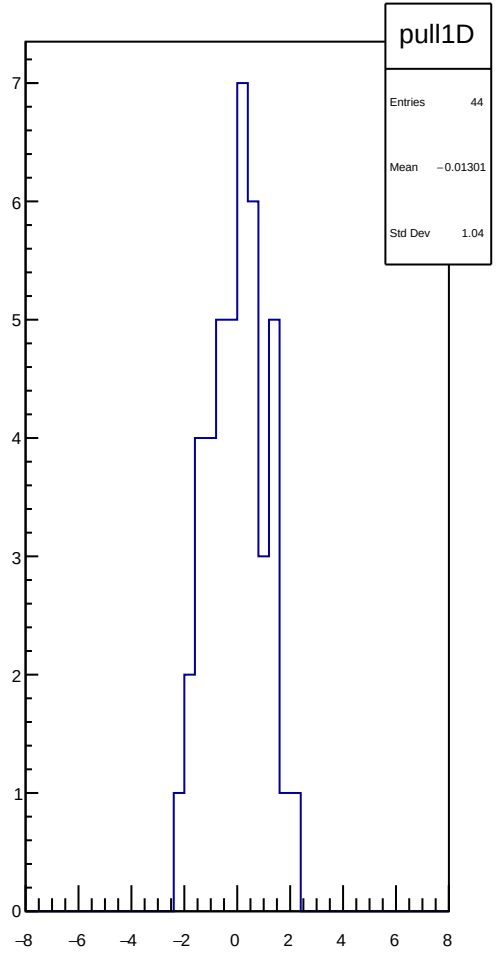

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 68.03 / 43
p0 41.32 ± 3.491
150
100
50
0
−50
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 399.8
Std Dev 375.8
3
2
1
0
−1
−2

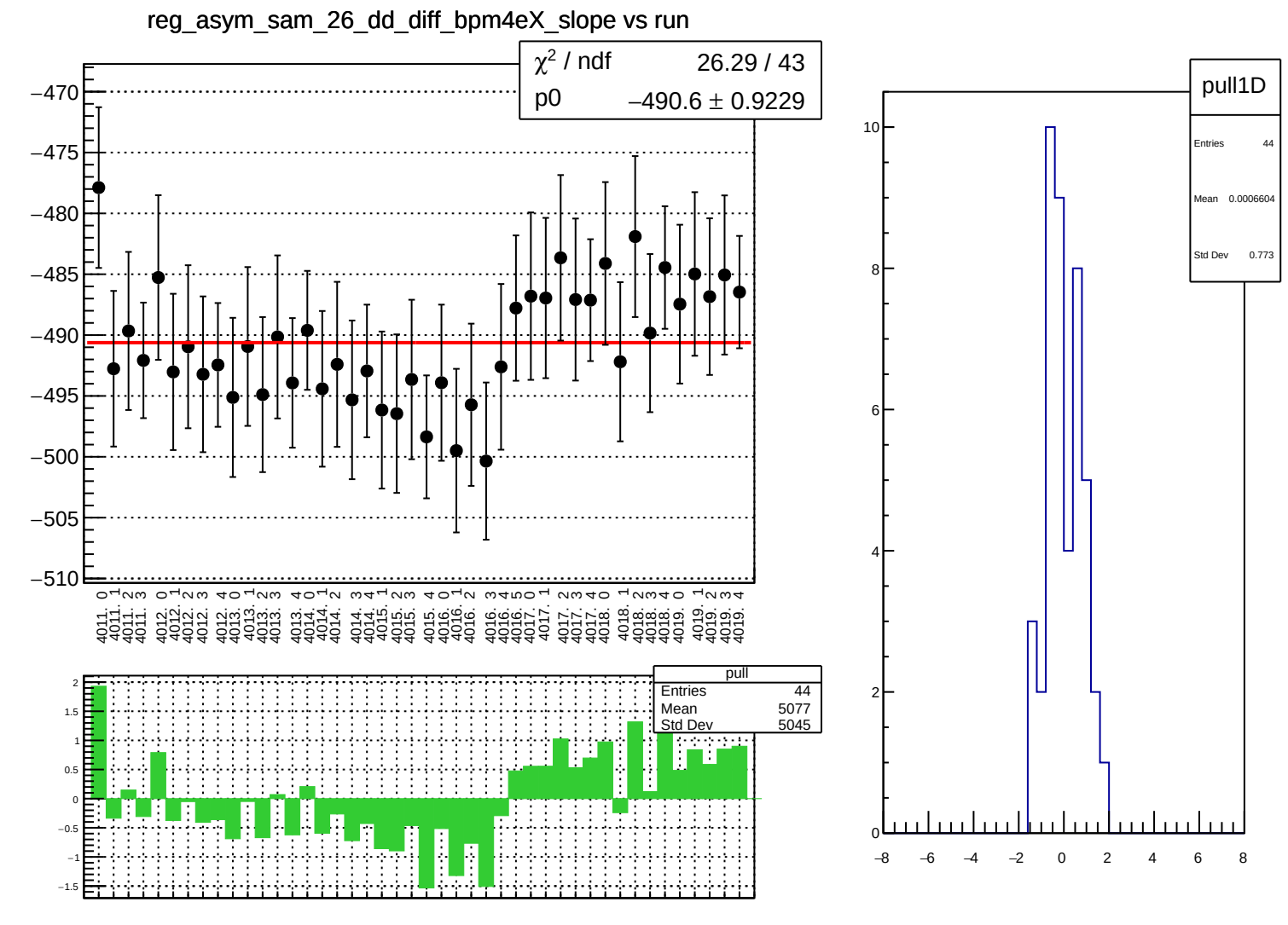

pull1D
Entries 44
Mean 0.02239
Std Dev 1.243
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

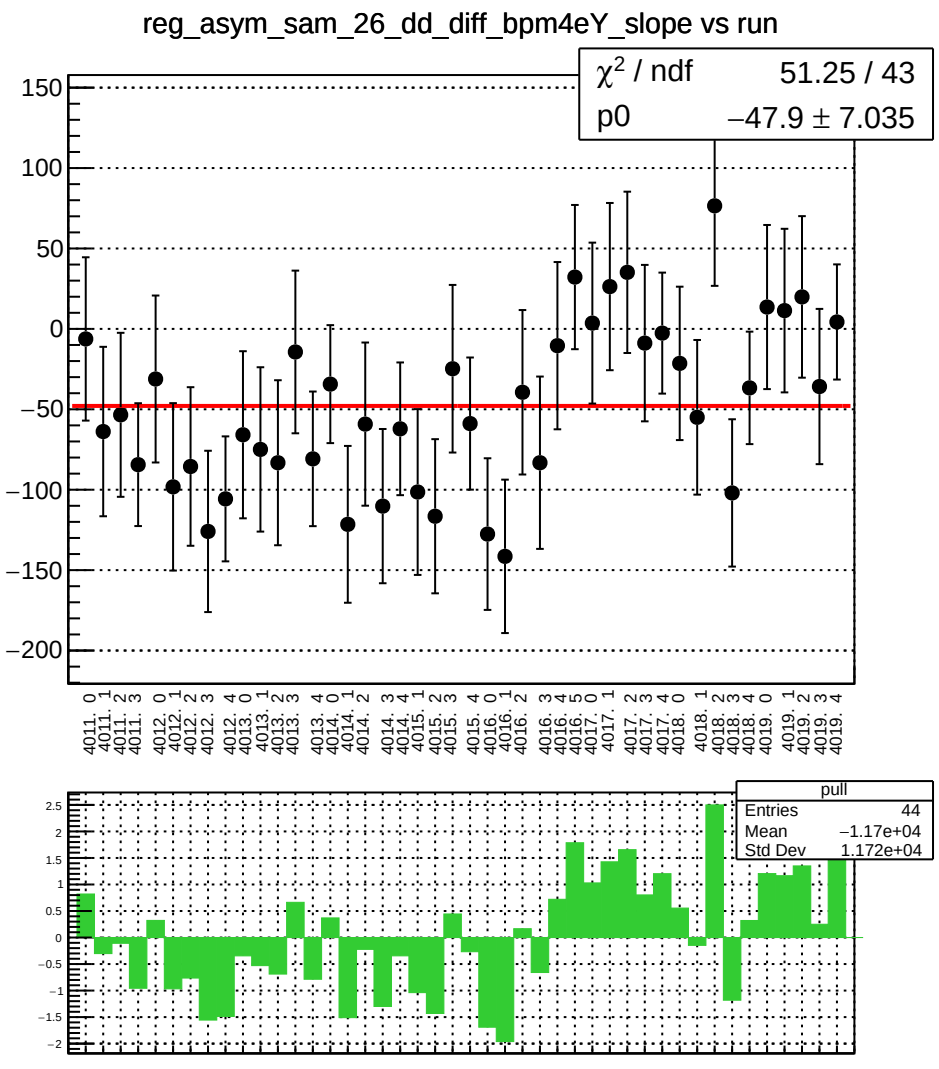

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 68.31 / 43
p0 −13.53 ± 0.6856
pull
Entries 44
Mean −104.8
Std Dev 127.5
pull1D
Entries 44
Mean −0.09349
Std Dev 1.243

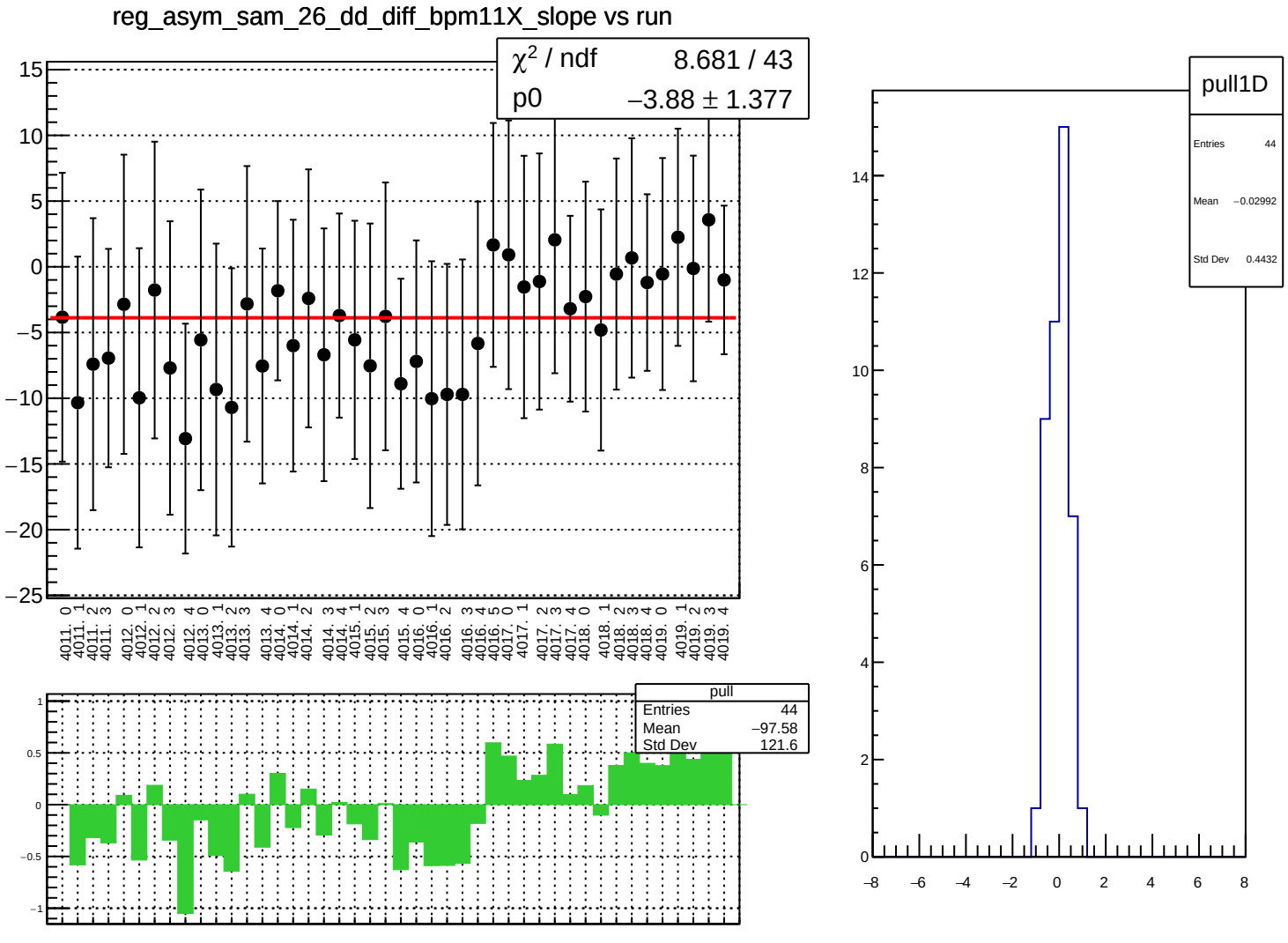

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.361 / 43
p0 62.61 ± 5.637
pull
Entries 44
Mean 264.5
Std Dev 246.2
pull1D
Entries 44
Mean 0.005689
Std Dev 0.349

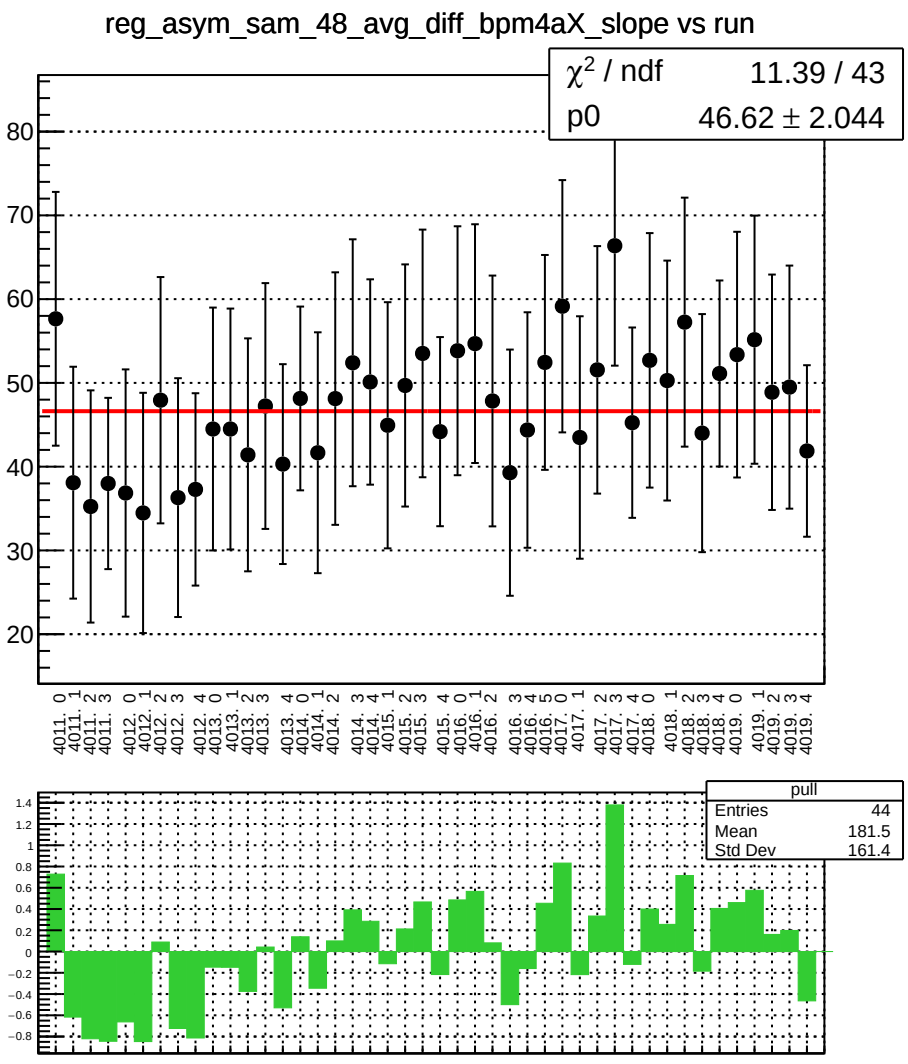

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.6 / 43
p0 −179.7 ± 4.075
pull
Entries 44
Mean 547.6
Std Dev 523

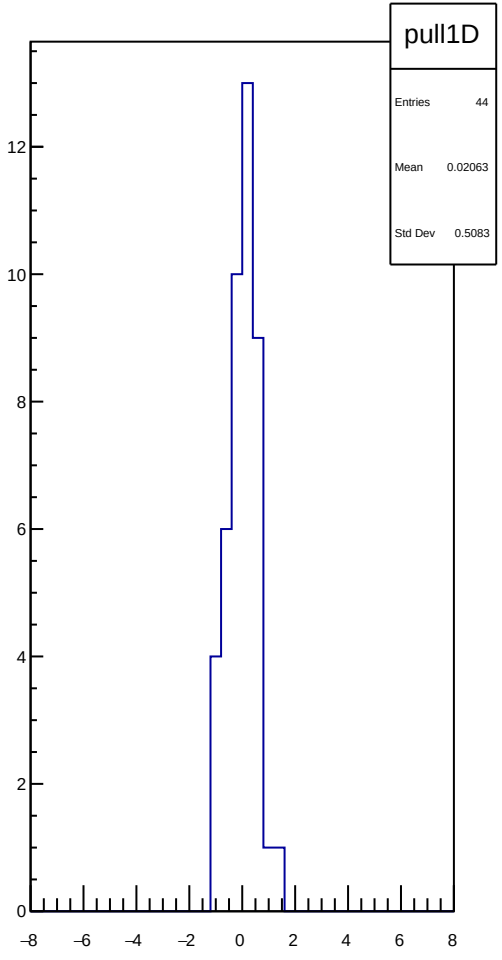

pull1D
Entries 44
Mean −0.01301
Std Dev 1.04

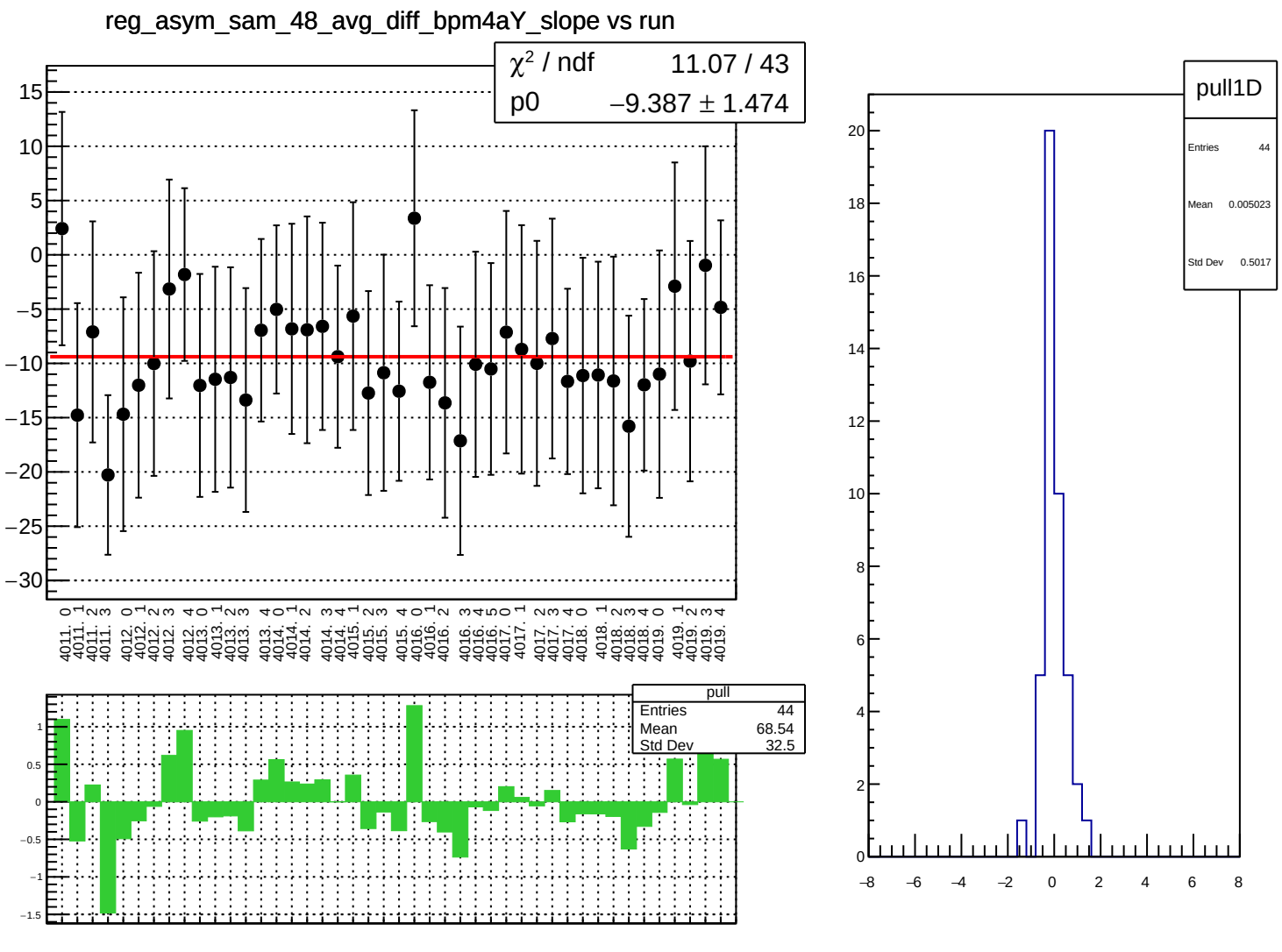

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.29 / 43
p0 −490.6 ± 0.9229
−470
−475
−480
−485
−490
−495
−500
−505
−510
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 5077
Std Dev 5045
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean 0.0006604
Std Dev 0.773
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

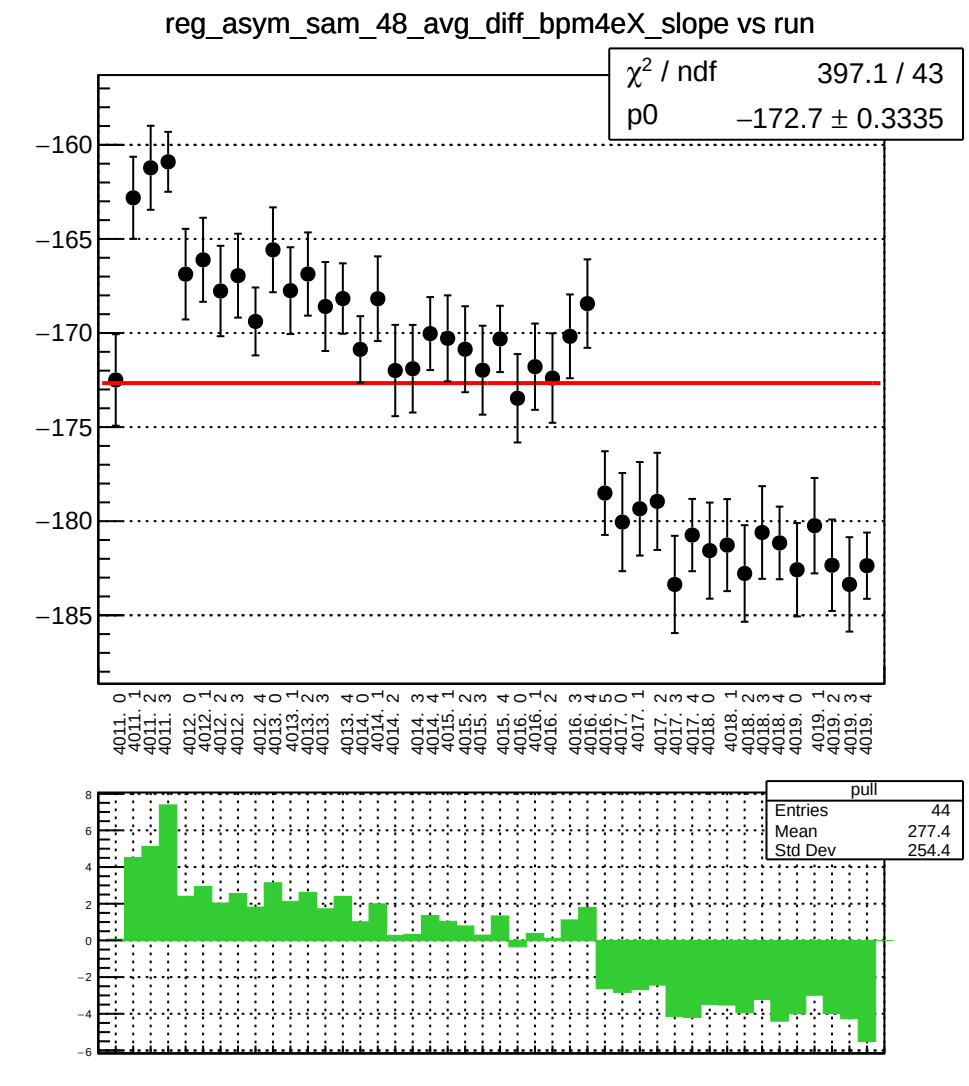

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.25 / 43
p0 −47.9 ± 7.035
150
100
50
0
−50
−100
−150
−200
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −1.17e+04
Std Dev 1.172e+04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean −0.0005974
Std Dev 1.079
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

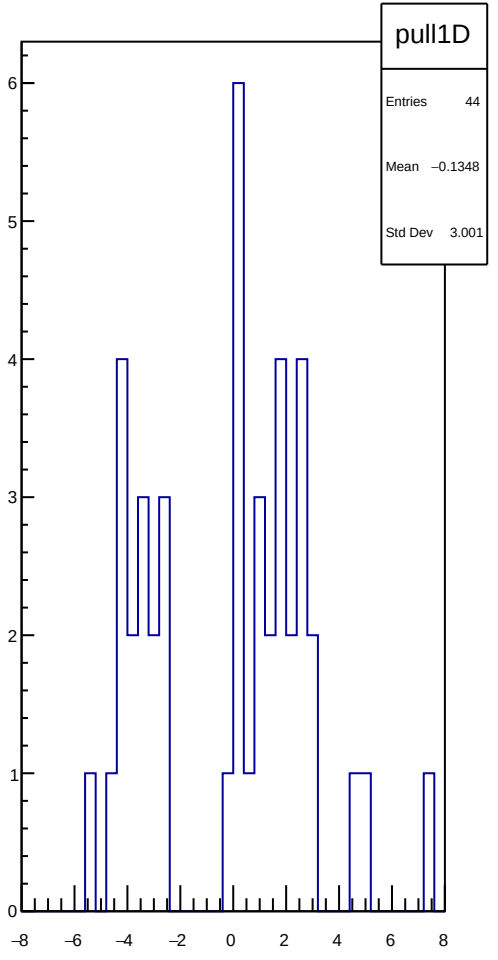

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 8.681 / 43
p0 −3.88 ± 1.377
pull
Entries 44
Mean −97.58
Std Dev 121.6
pull1D
Entries 44
Mean −0.02992
Std Dev 0.4432

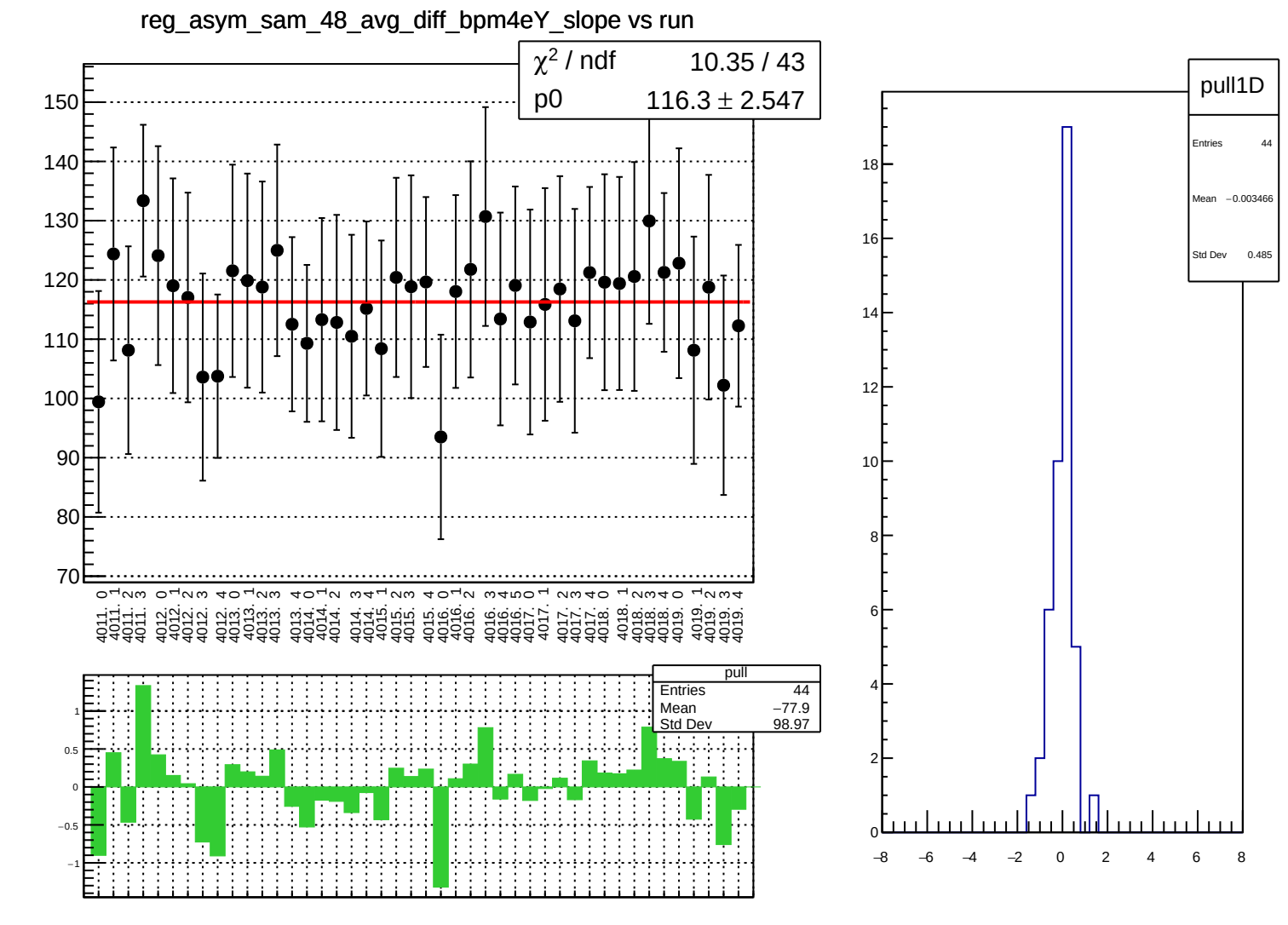

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 11.39 / 43
p0 46.62 ± 2.044
pull
Entries 44
Mean 181.5
Std Dev 161.4

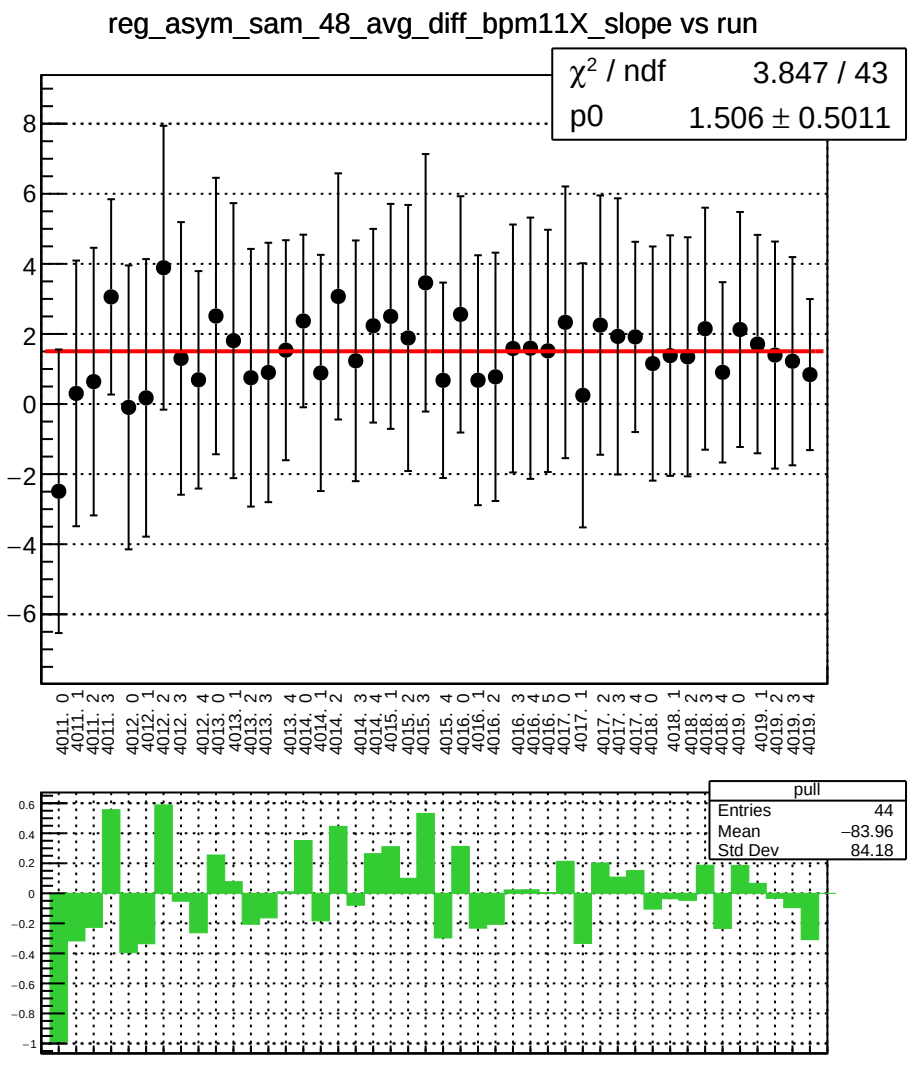

pull1D
Entries 44
Mean 0.02063
Std Dev 0.5083

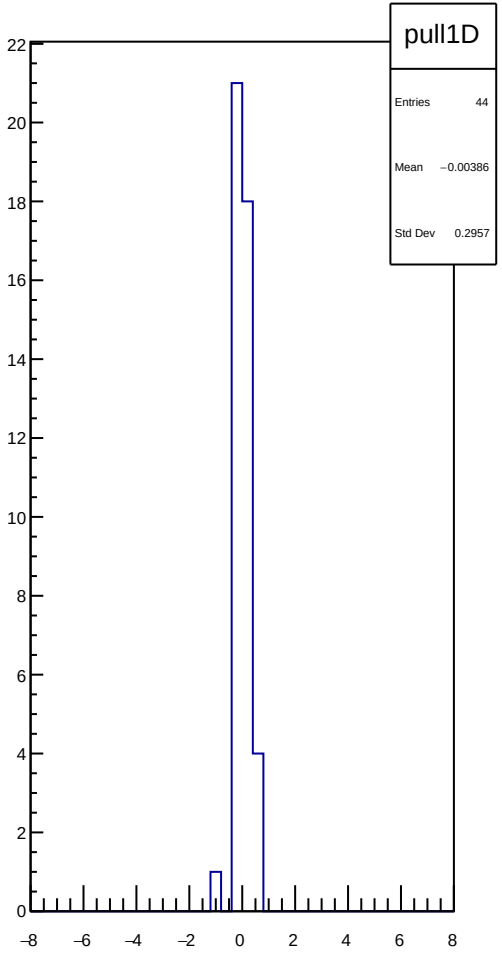

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.07 / 43
p0 −9.387 ± 1.474
pull
Entries 44
Mean 68.54
Std Dev 32.5
pull1D
Entries 44
Mean 0.005023
Std Dev 0.5017

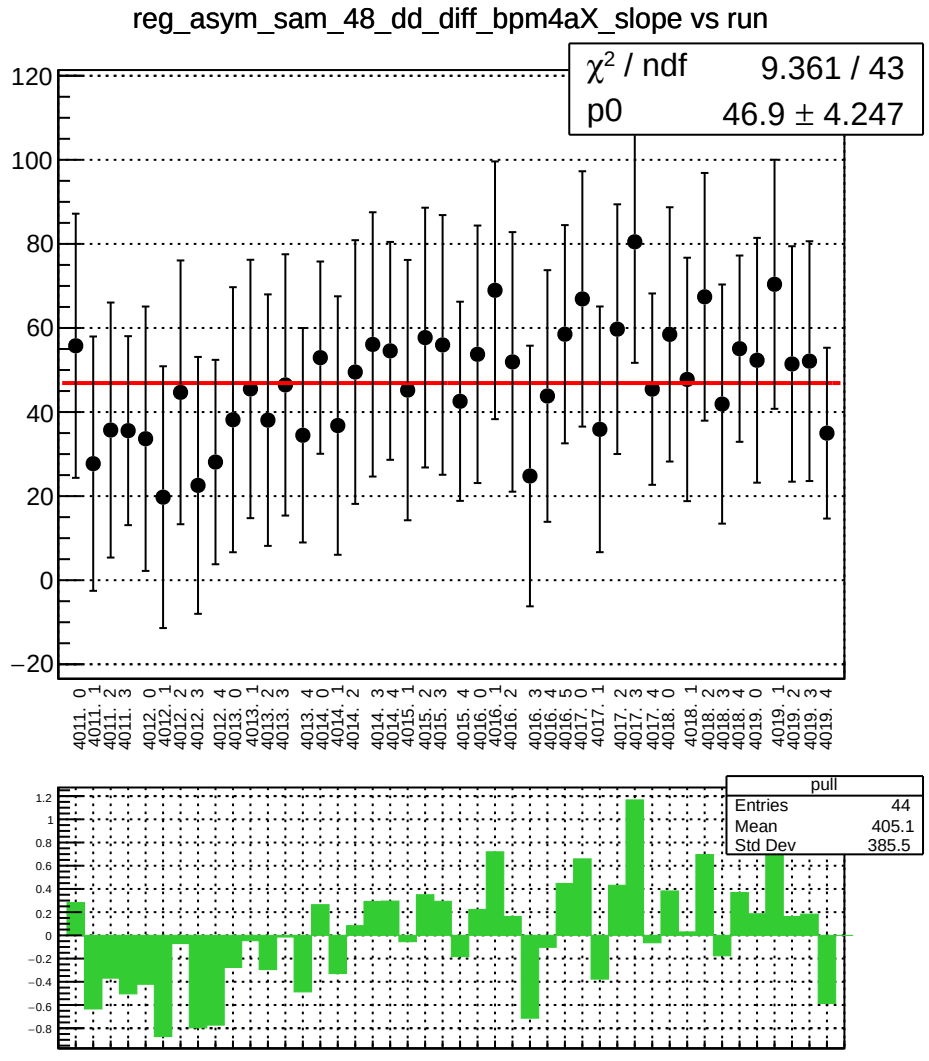

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 397.1 / 43
p0 −172.7 ± 0.3335
pull
Entries 44
Mean 277.4
Std Dev 254.4

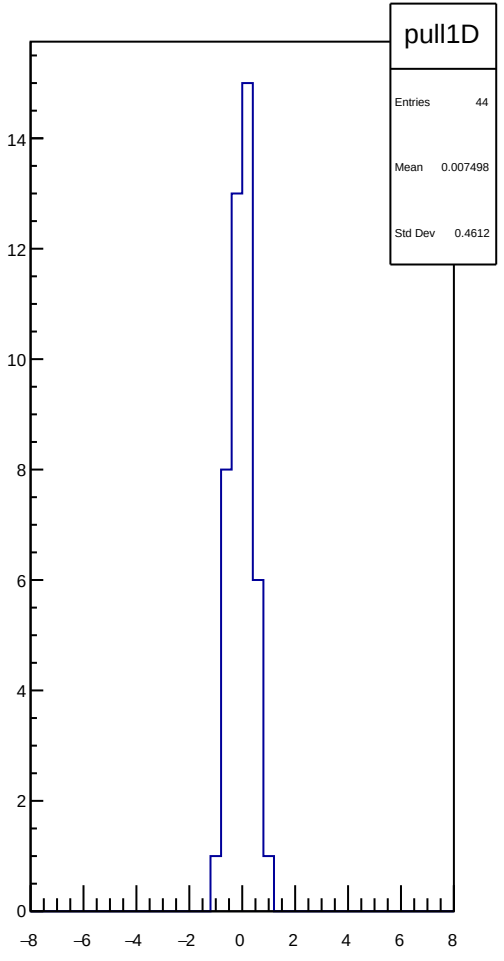

pull1D
Entries 44
Mean −0.1348
Std Dev 3.001

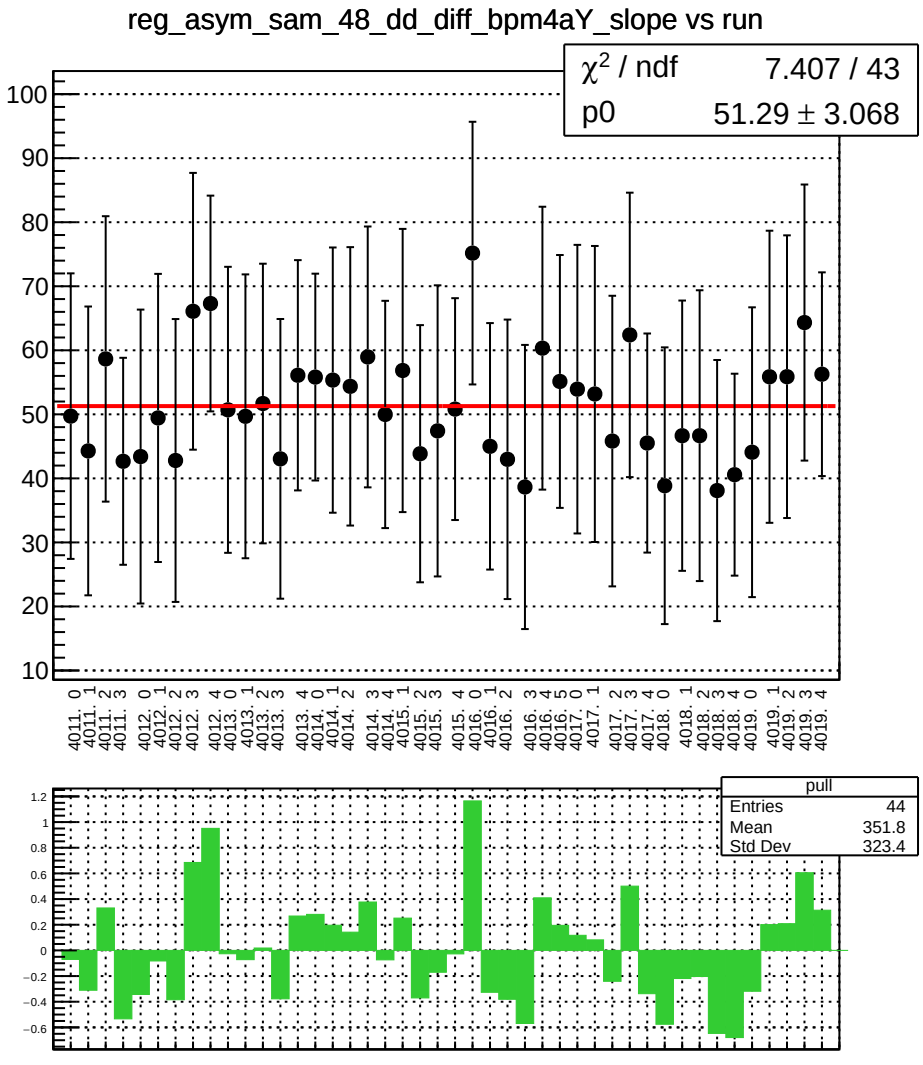

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.35 / 43
p0 116.3 ± 2.547
150
140
130
120
110
100
90
80
70
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −77.9
Std Dev 98.97
1
0.5
0
−0.5
−1
pull1D
Entries 44
Mean −0.003466
Std Dev 0.485
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

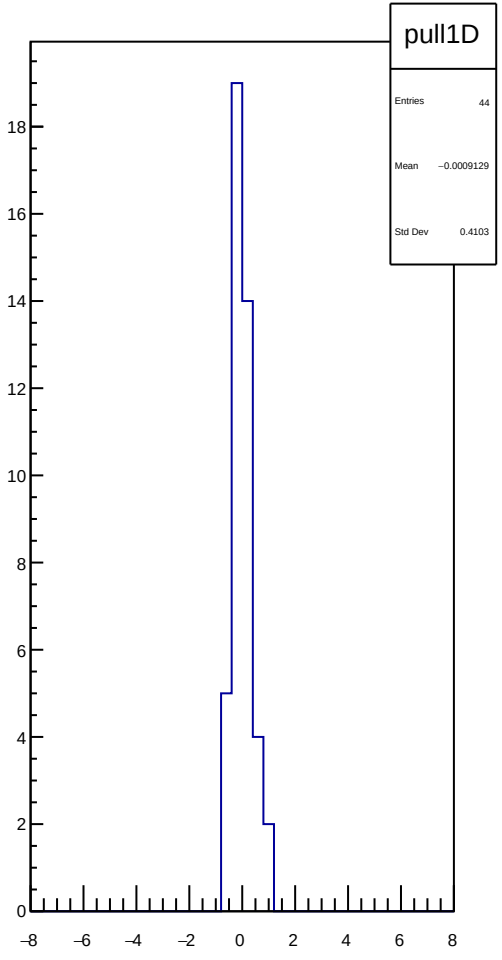

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 3.847 / 43
p0 1.506 ± 0.5011
pull
Entries 44
Mean −83.96
Std Dev 84.18

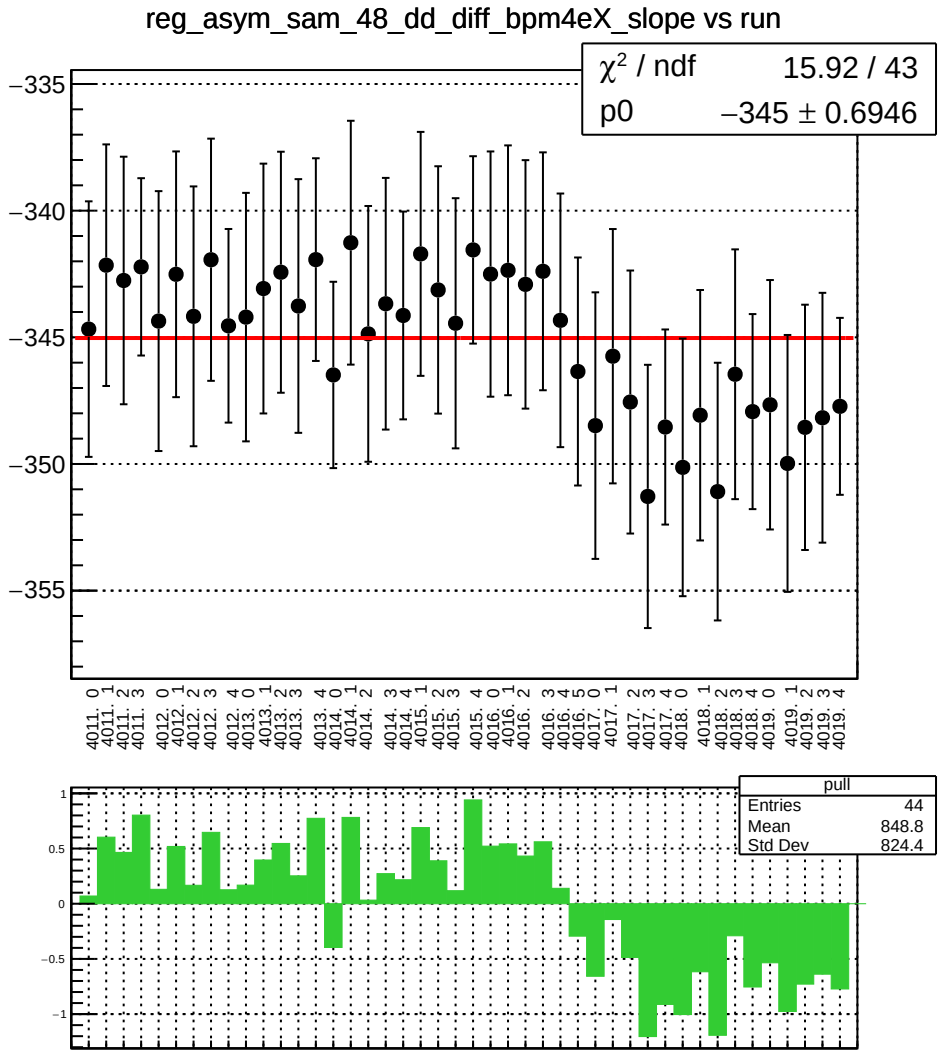

pull1D
Entries 44
Mean −0.00386
Std Dev 0.2957

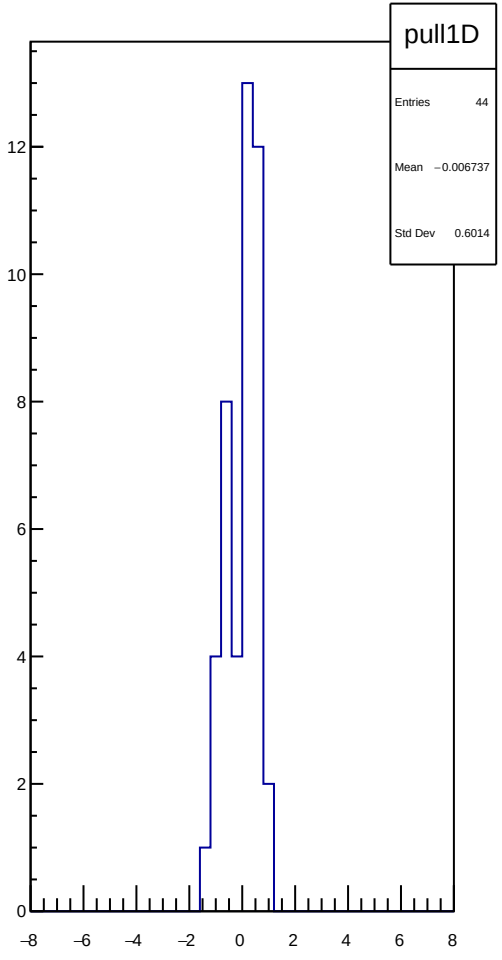

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.361 / 43
p0 46.9 ± 4.247
pull
Entries 44
Mean 405.1
Std Dev 385.5

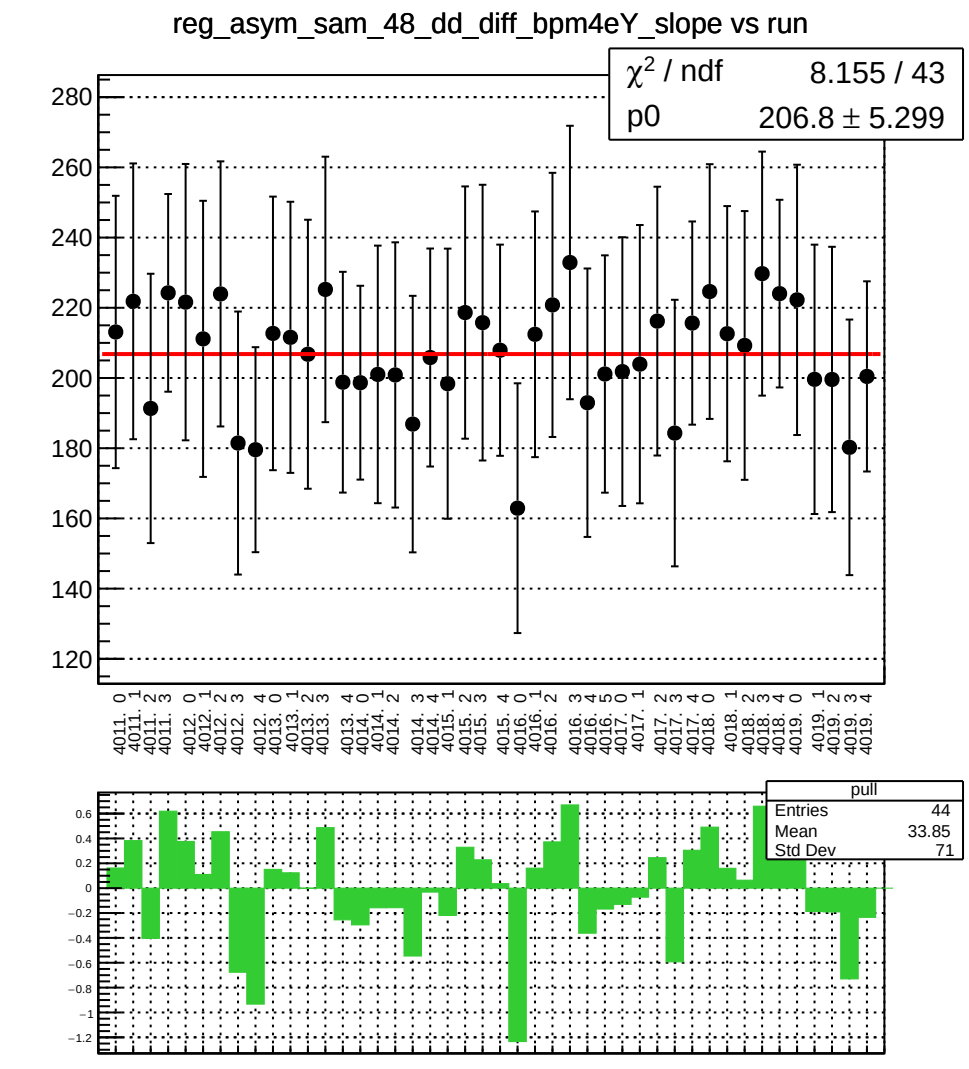

pull1D
Entries 44
Mean 0.007498
Std Dev 0.4612

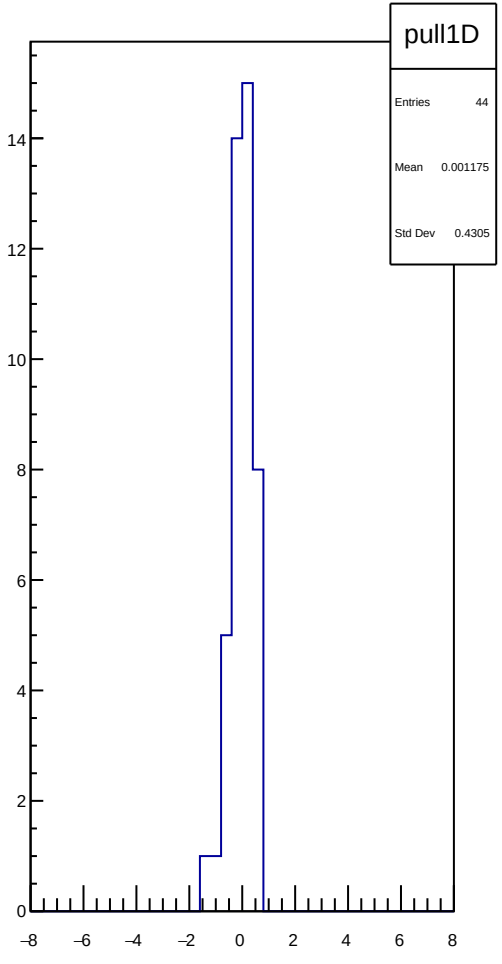

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.407 / 43
p0 51.29 ± 3.068
pull
Entries 44
Mean 351.8
Std Dev 323.4

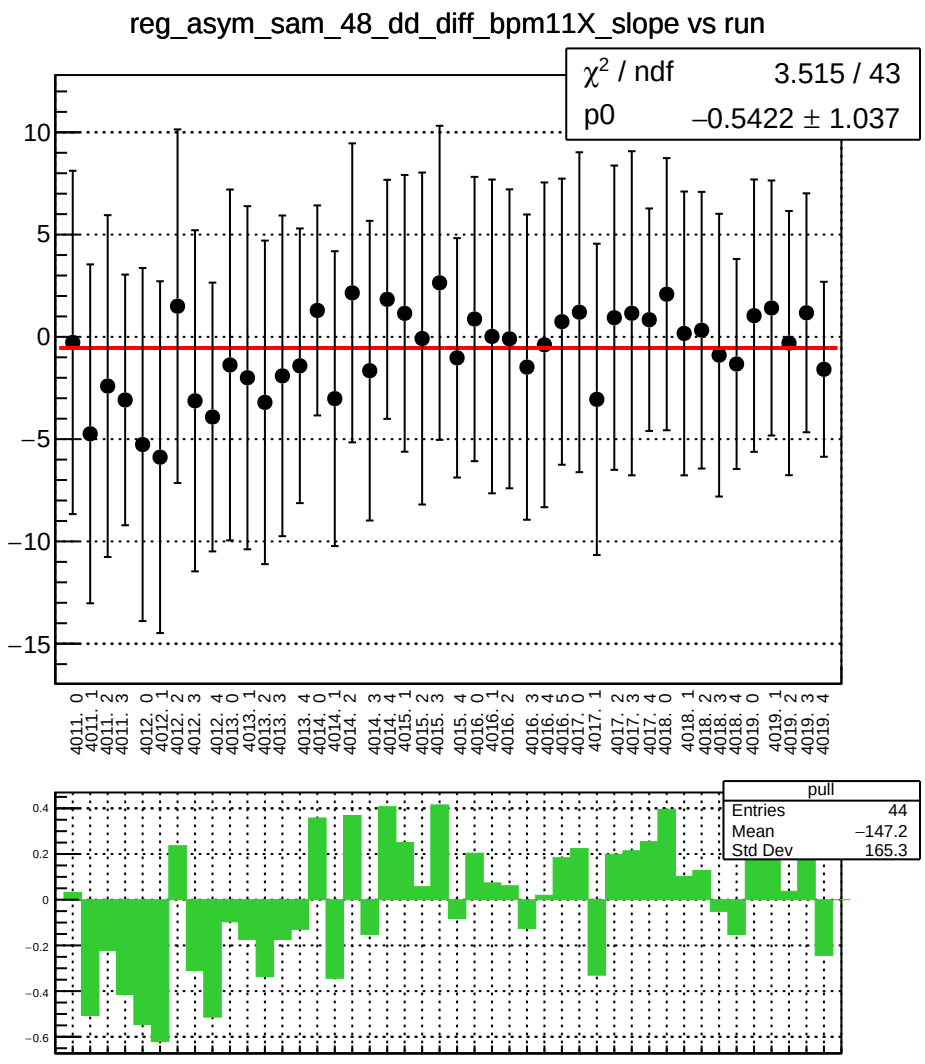

pull1D
Entries 44
Mean −0.0009129
Std Dev 0.4103

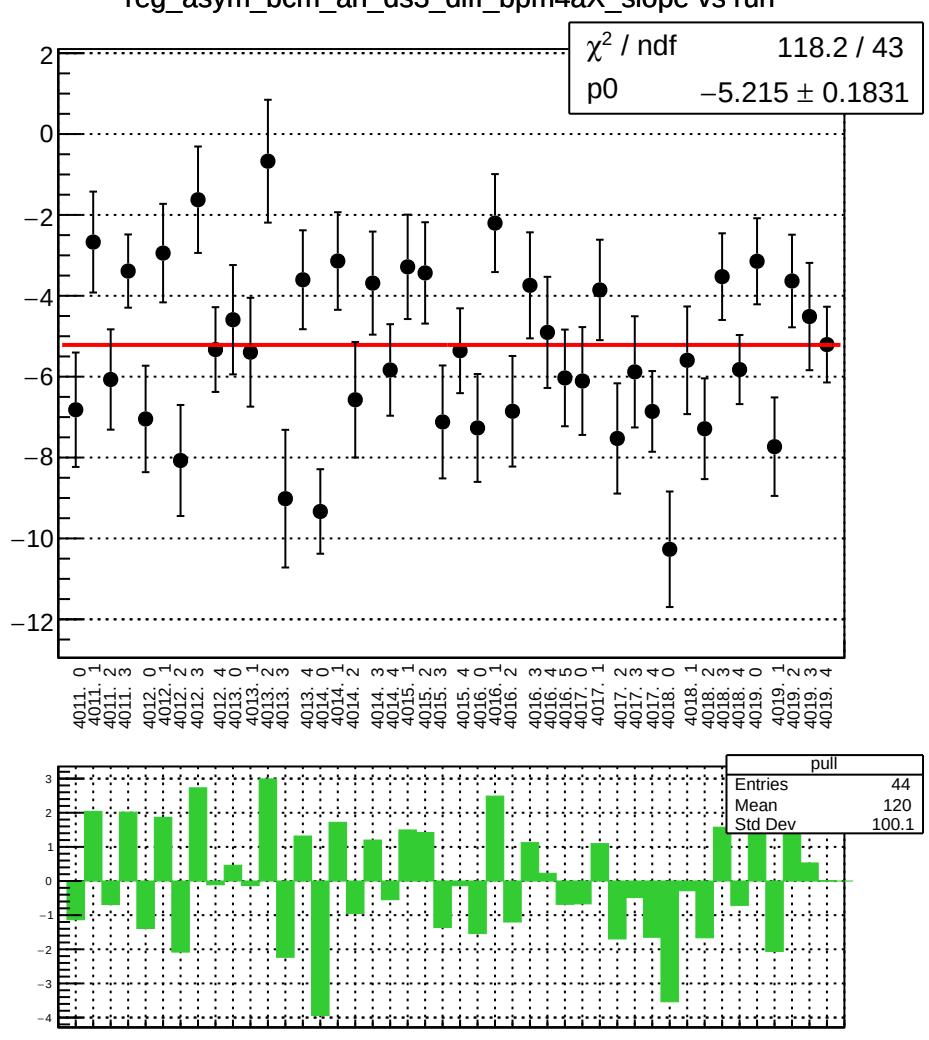

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.92 / 43
p0 −345 ± 0.6946
−335
−340
−345
−350
−355
pull
Entries 44
Mean 848.8
Std Dev 824.4
1
0.5
0
−0.5
−1

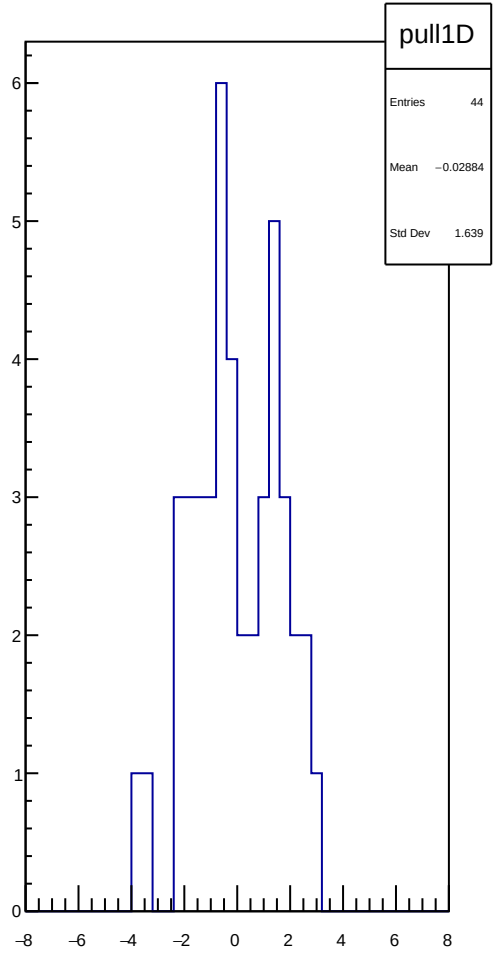

pull1D
Entries 44
Mean −0.006737
Std Dev 0.6014
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

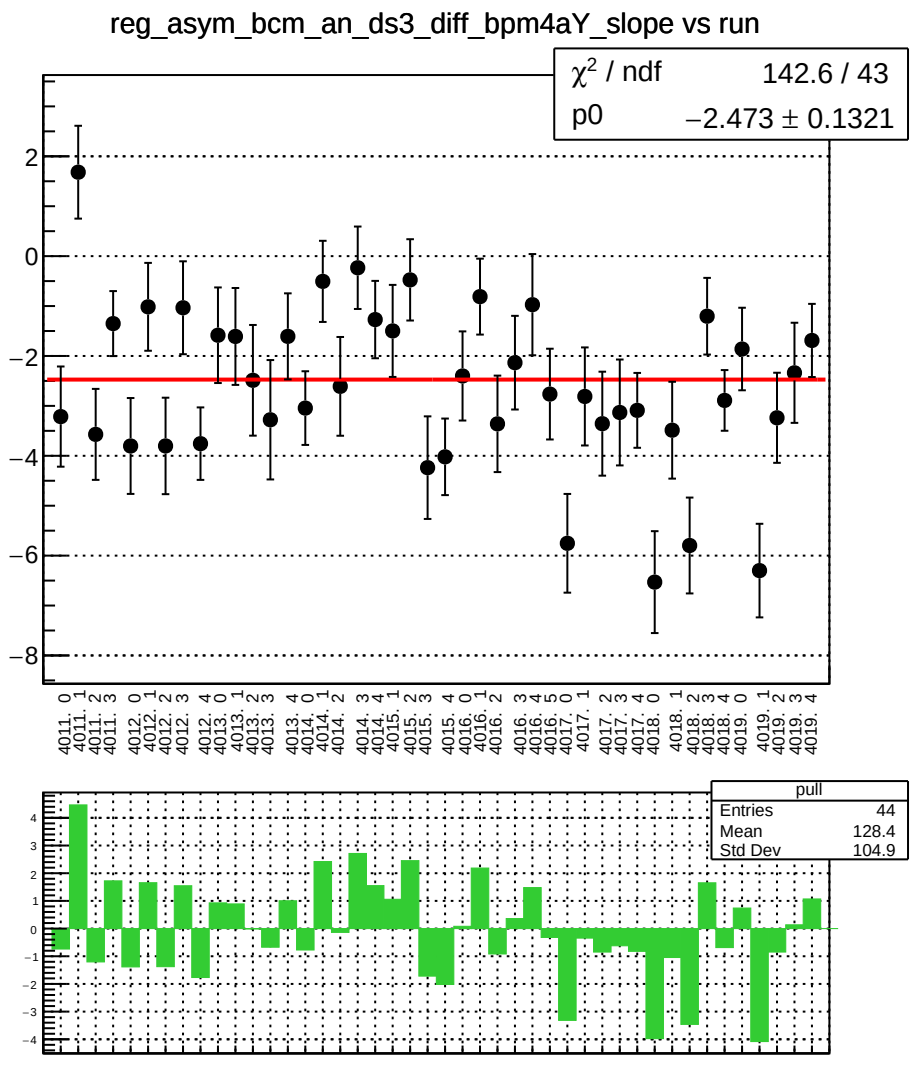

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.155 / 43
p0 206.8 ± 5.299
pull
Entries 44
Mean 33.85
Std Dev 71

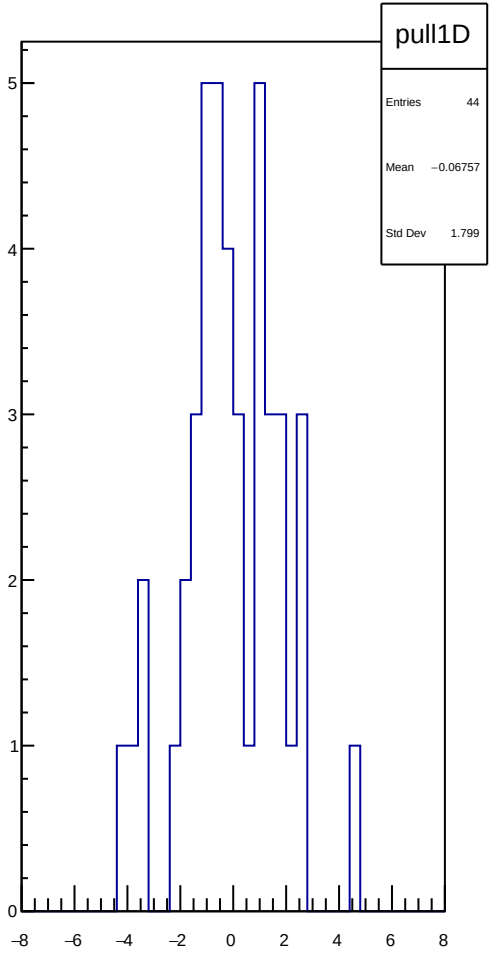

pull1D
Entries 44
Mean 0.001175
Std Dev 0.4305

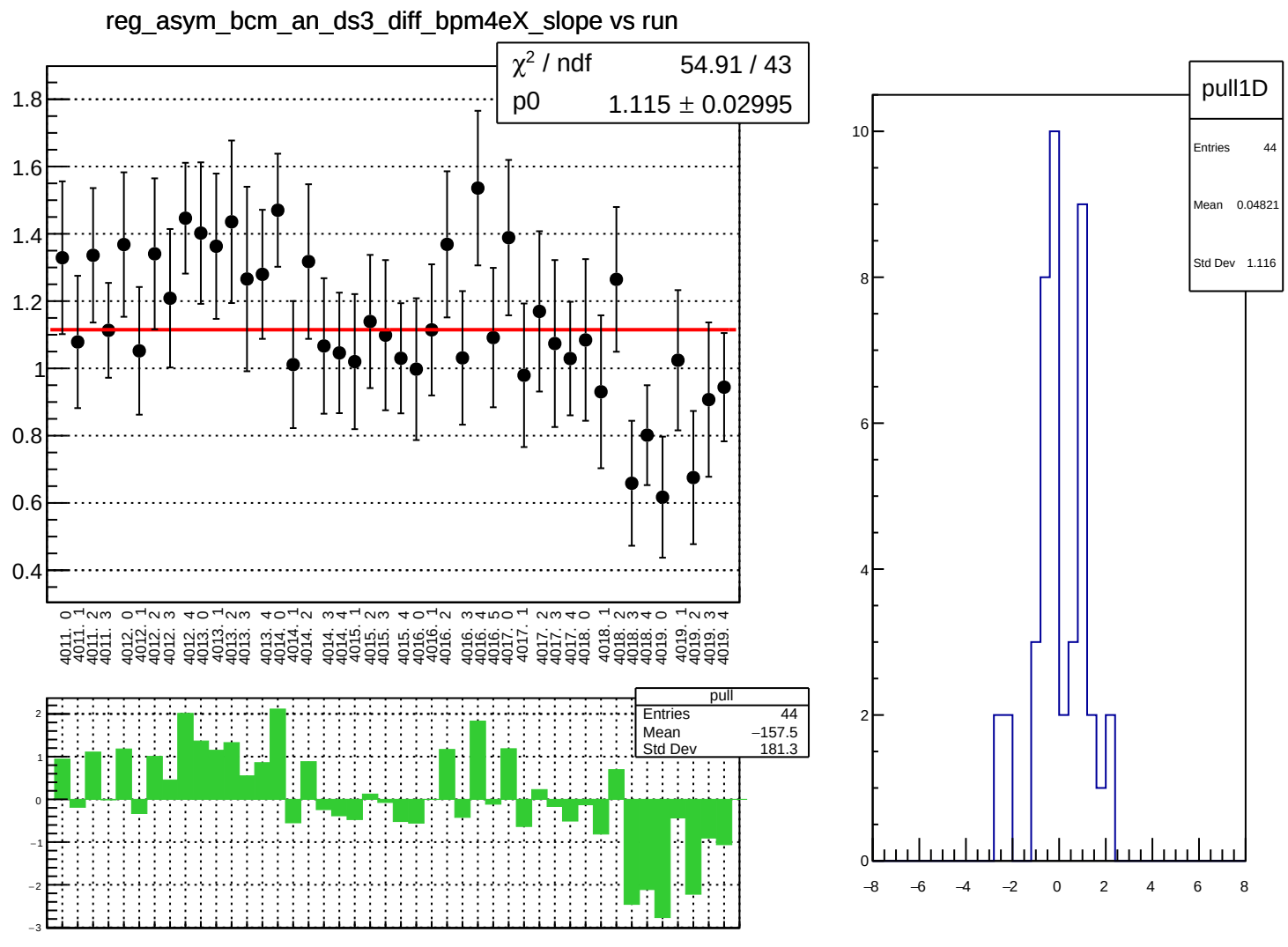

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 3.515 / 43
p0 −0.5422 ± 1.037
10
5
0
−5
−10
−15
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −147.2
Std Dev 165.3
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 44
Mean −0.01052
Std Dev 0.2824
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

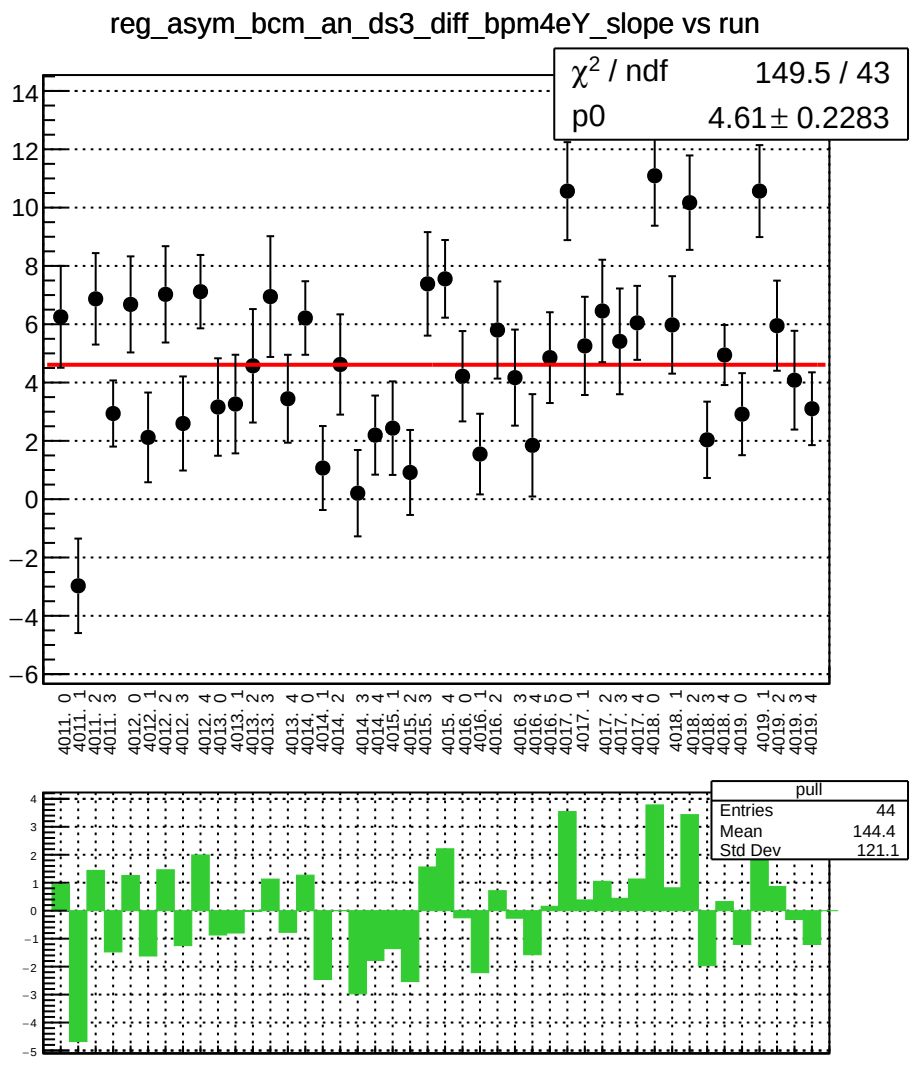

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 118.2 / 43
p0 −5.215 ± 0.1831
pull
Entries 44
Mean 120
Std Dev 100.1

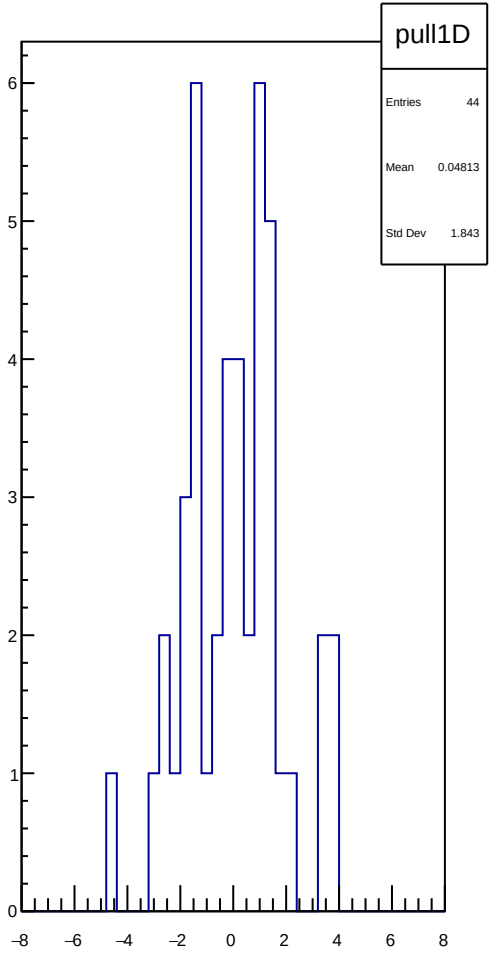

pull1D
Entries 44
Mean −0.02884
Std Dev 1.639


reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 142.6 / 43
p0 −2.473 ± 0.1321
pull
Entries 44
Mean 128.4
Std Dev 104.9

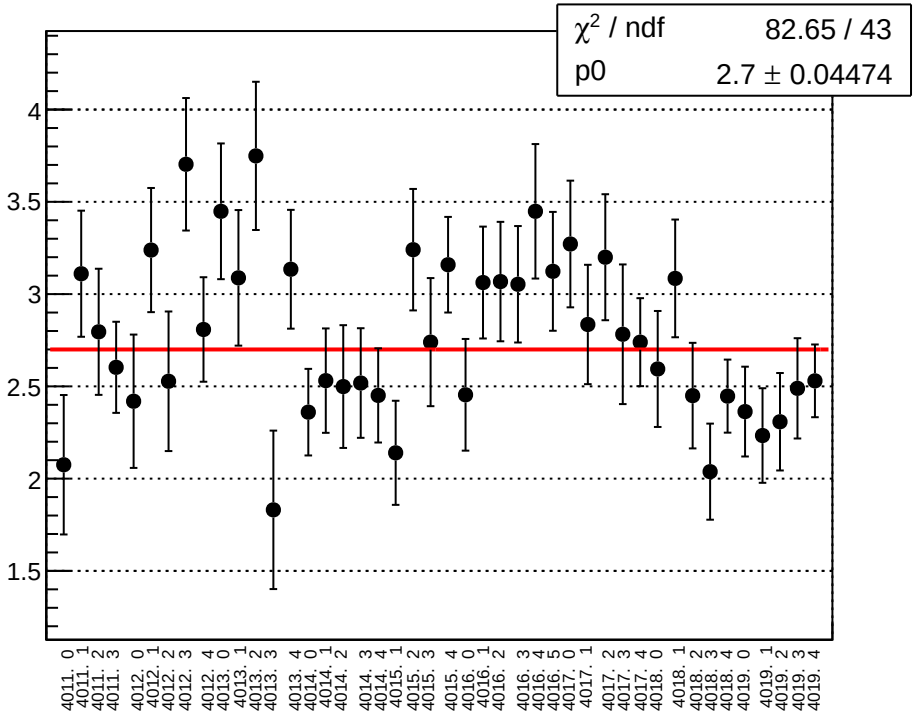

pull1D
Entries 44
Mean −0.06757
Std Dev 1.799

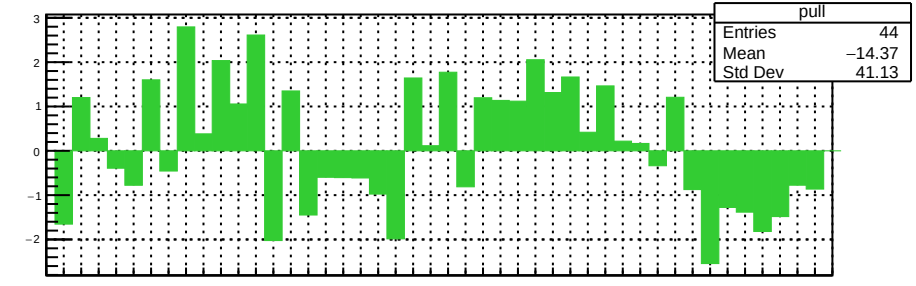

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 54.91 / 43
p0 1.115 ± 0.02995
pull
Entries 44
Mean −157.5
Std Dev 181.3
pull1D
Entries 44
Mean 0.04821
Std Dev 1.116

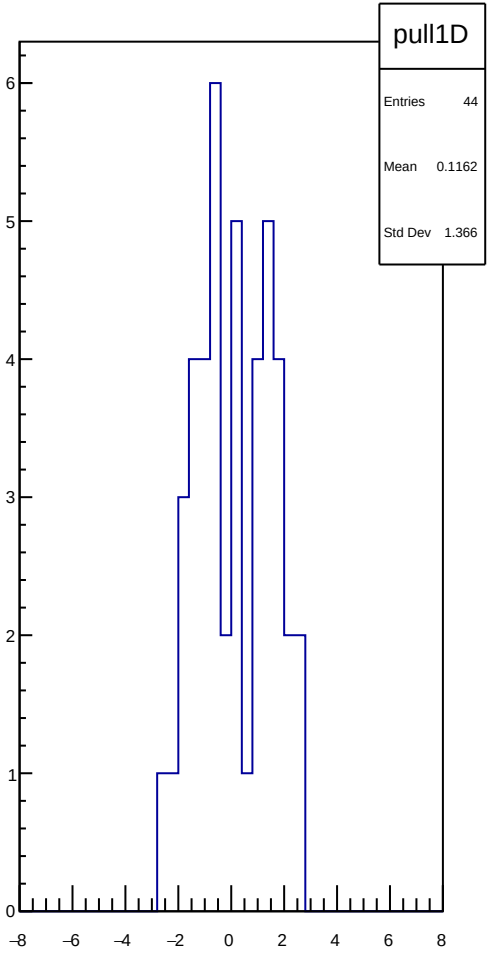

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 149.5 / 43
p0 4.61 ± 0.2283
pull
Entries 44
Mean 144.4
Std Dev 121.1

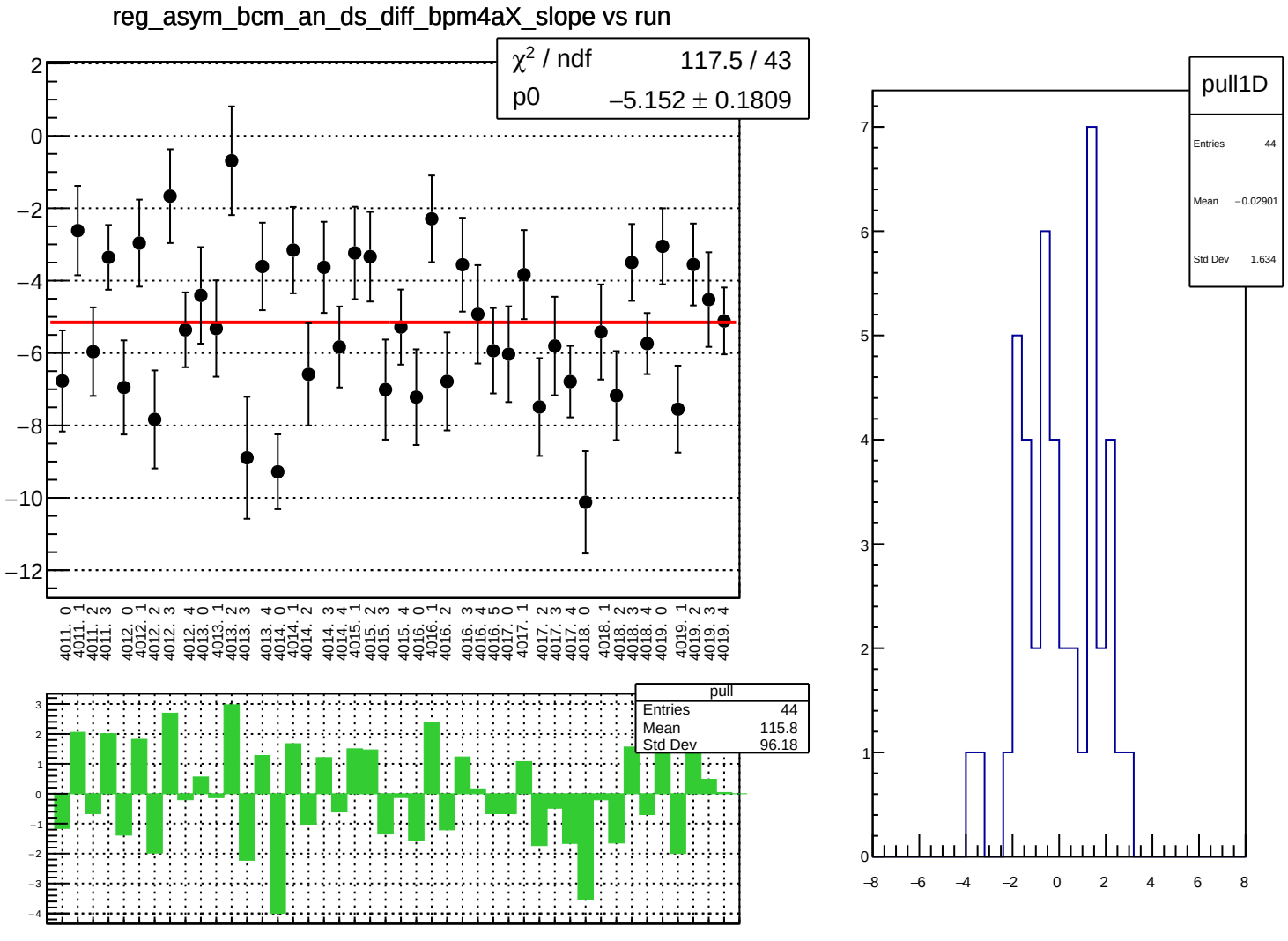

pull1D
Entries 44
Mean 0.04813
Std Dev 1.843

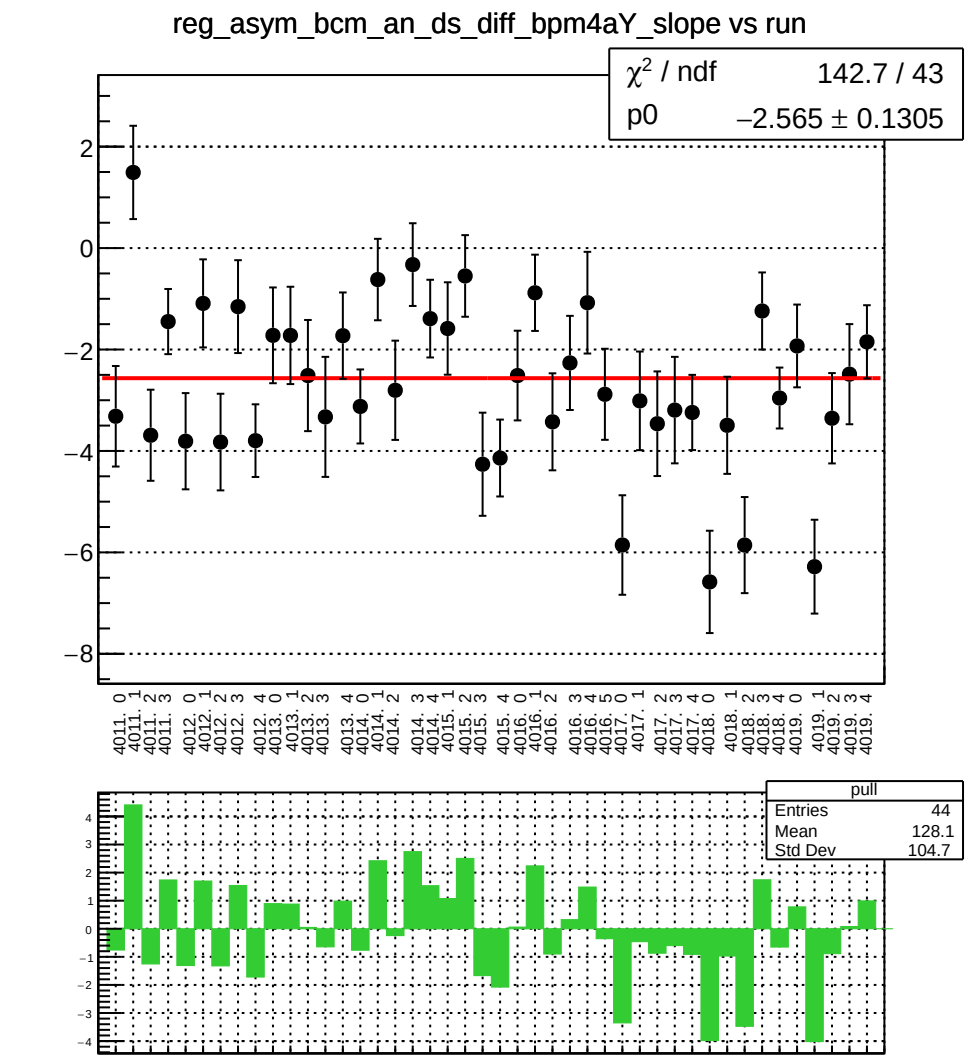
reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run

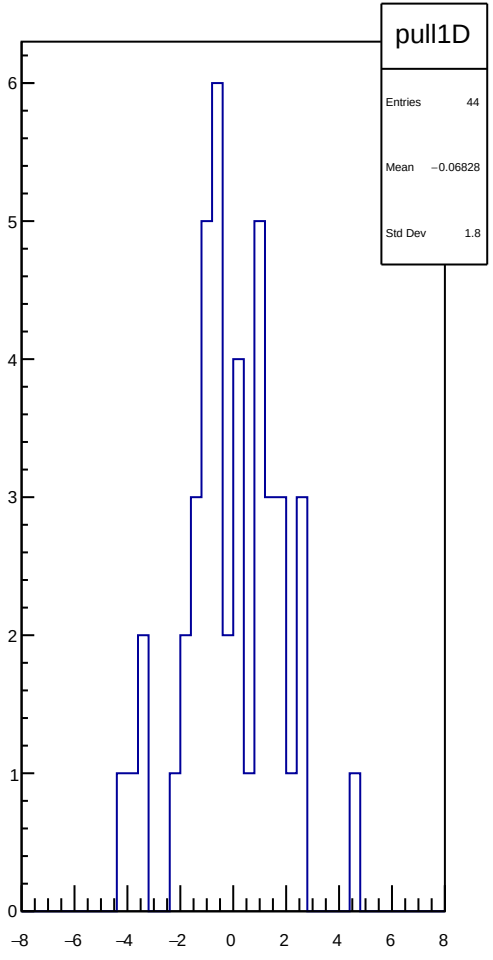


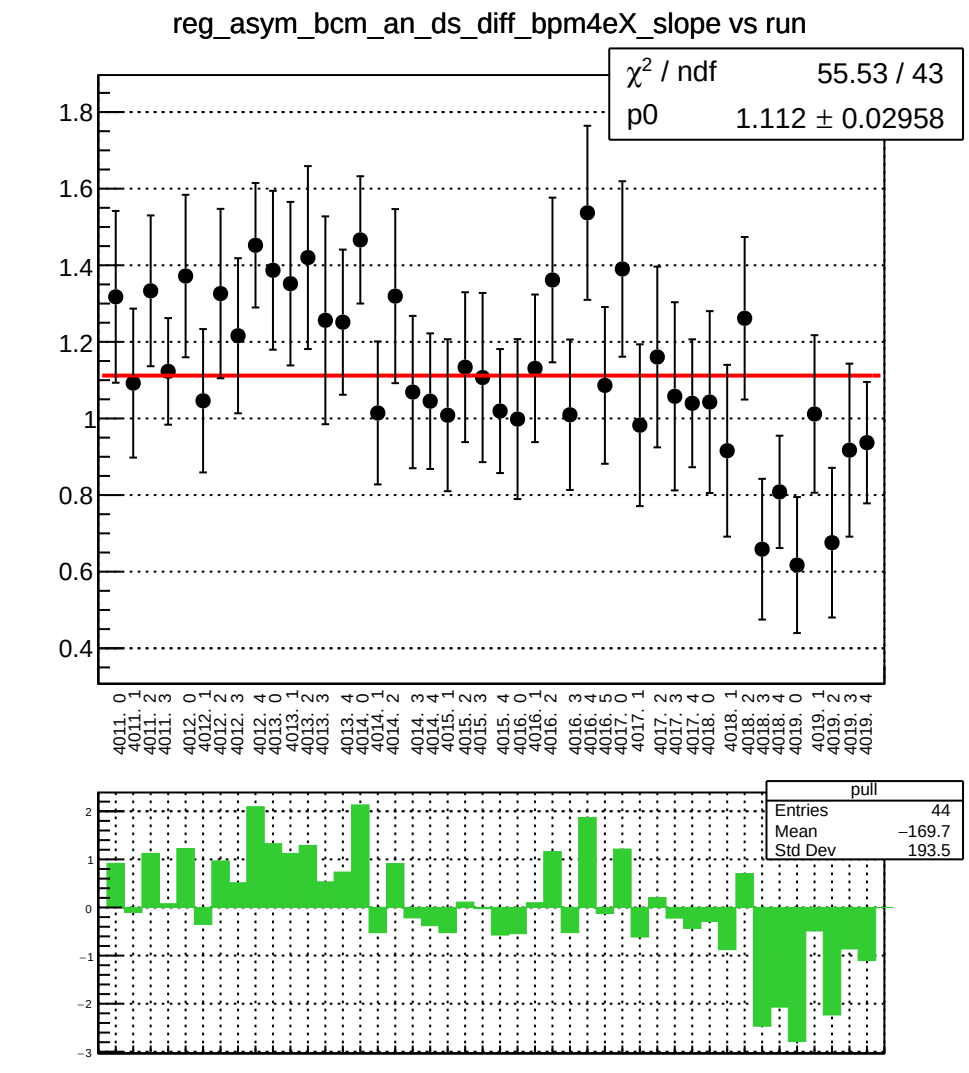


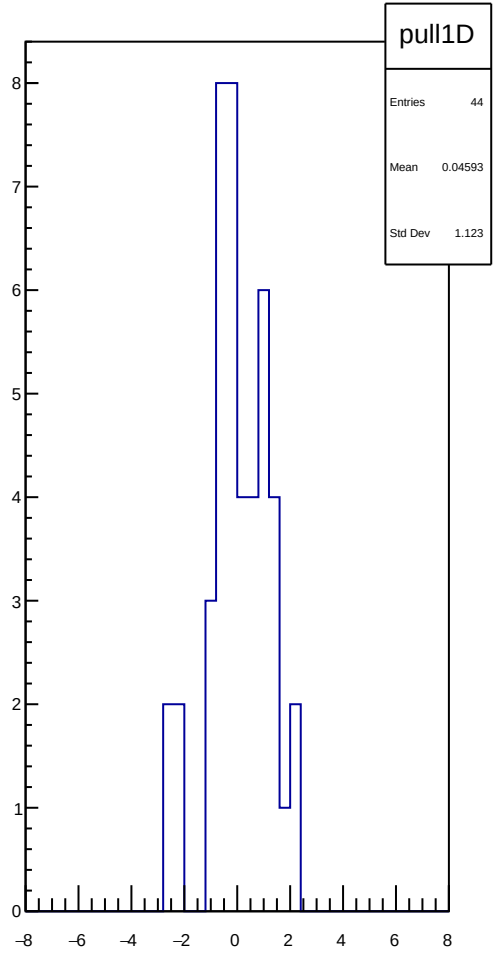


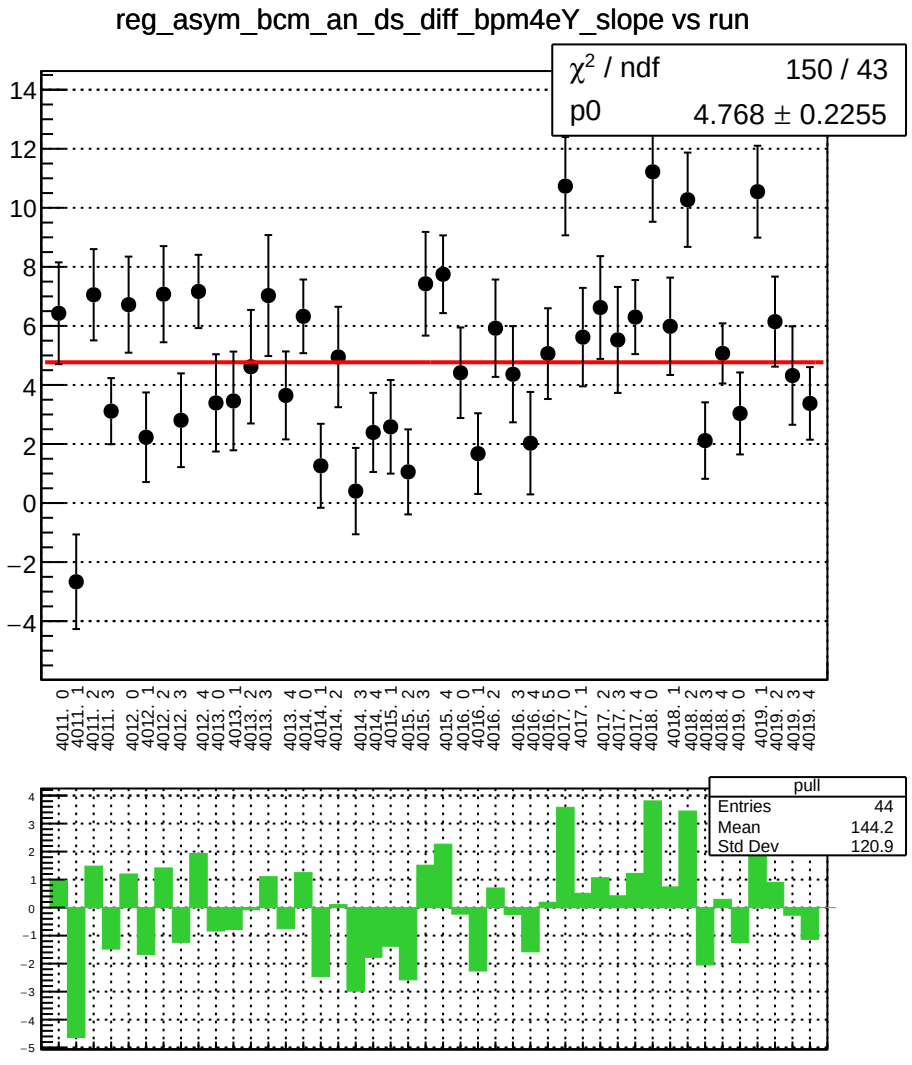

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 117.5 / 43
p0 −5.152 ± 0.1809
pull
Entries 44
Mean 115.8
Std Dev 96.18
pull1D
Entries 44
Mean −0.02901
Std Dev 1.634

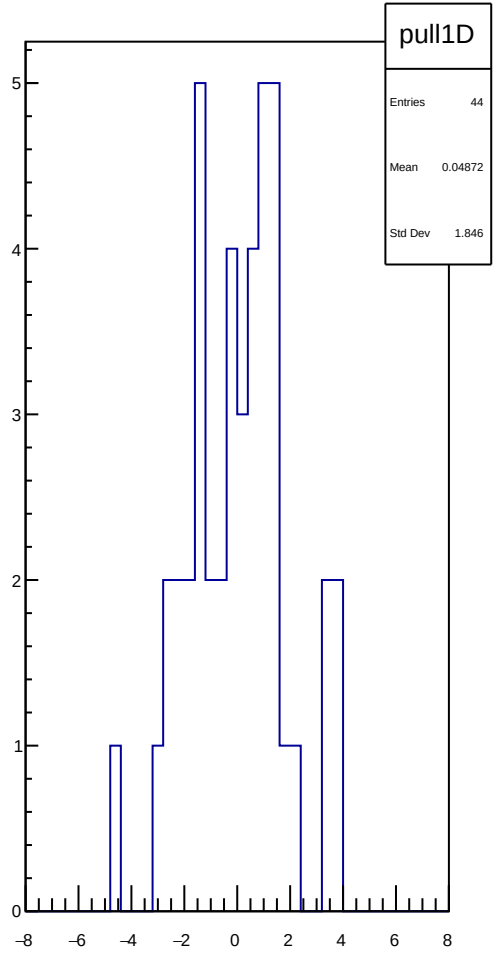

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 142.7 / 43
p0 −2.565 ± 0.1305
pull
Entries 44
Mean 128.1
Std Dev 104.7

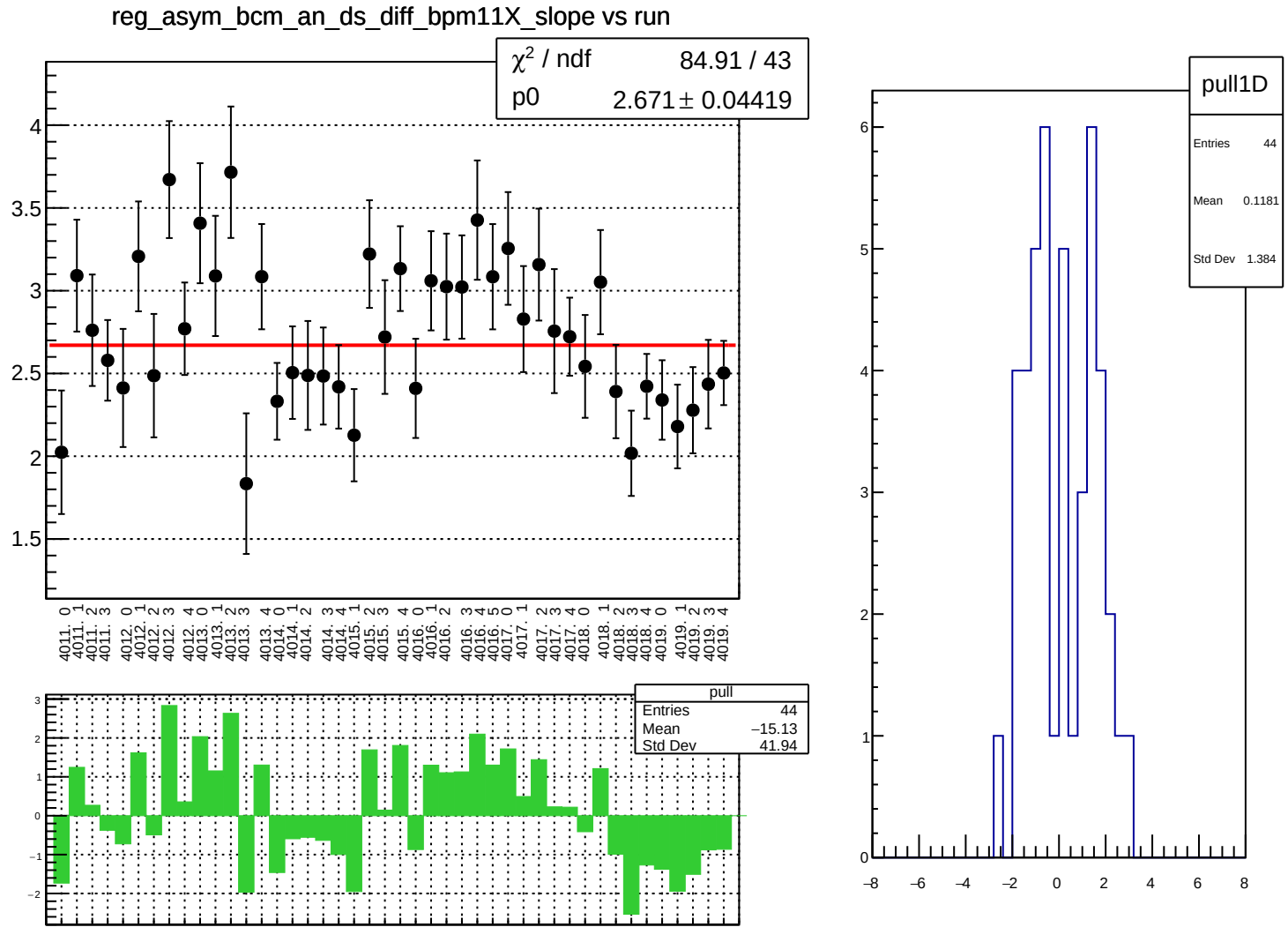

pull1D
Entries 44
Mean −0.06828
Std Dev 1.8

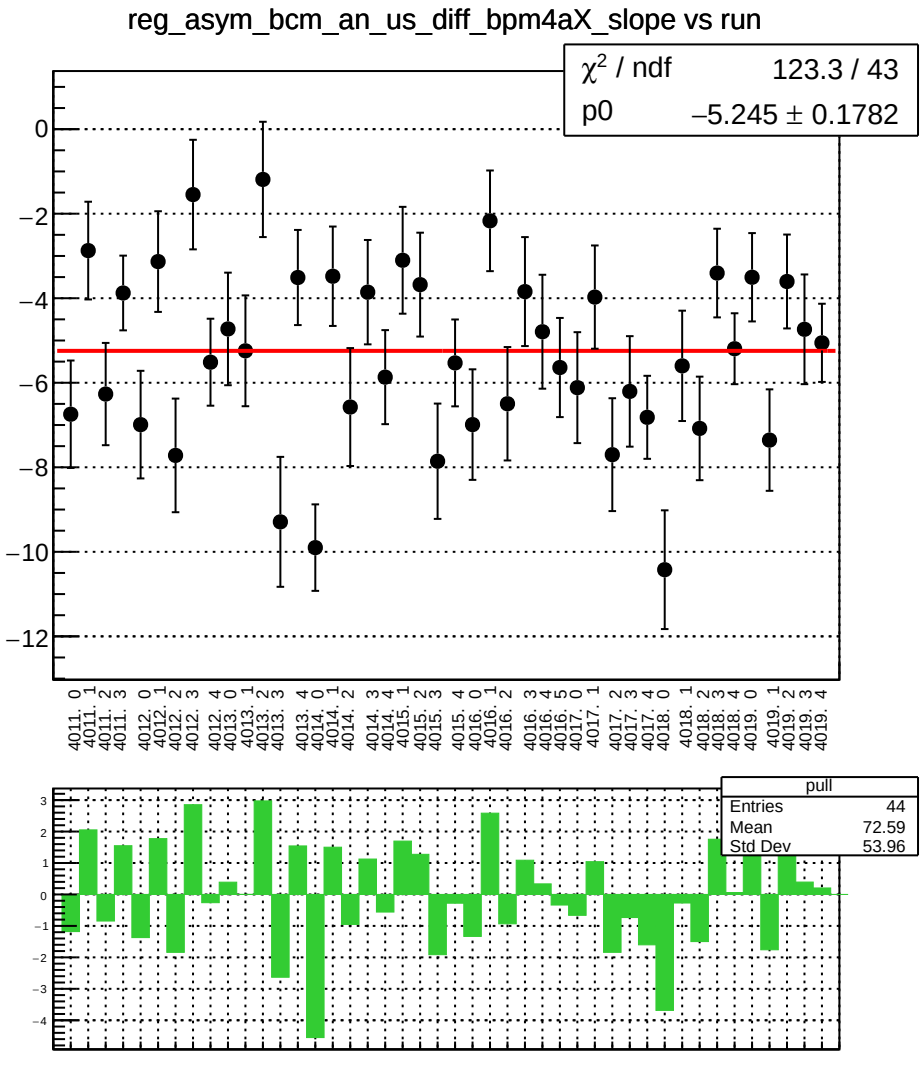

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 55.53 / 43
p0 1.112 ± 0.02958
pull
Entries 44
Mean −169.7
Std Dev 193.5

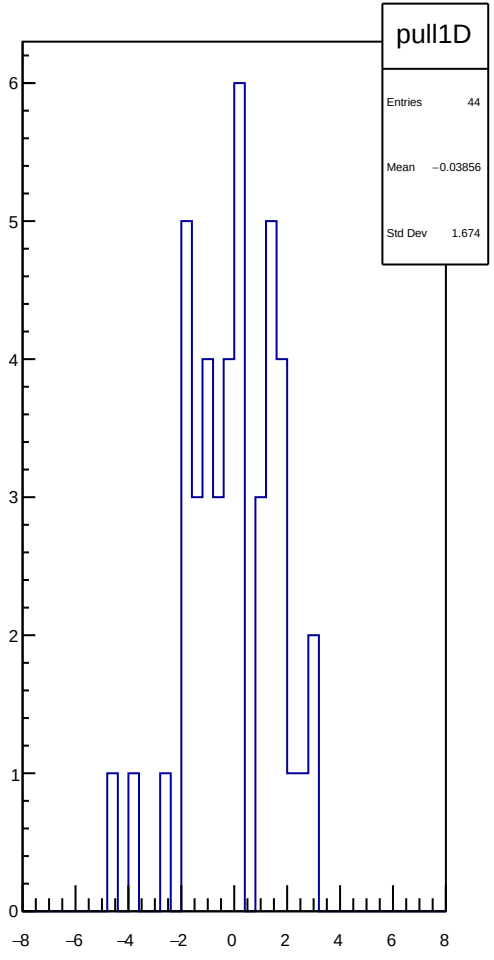

pull1D
Entries 44
Mean 0.04593
Std Dev 1.123

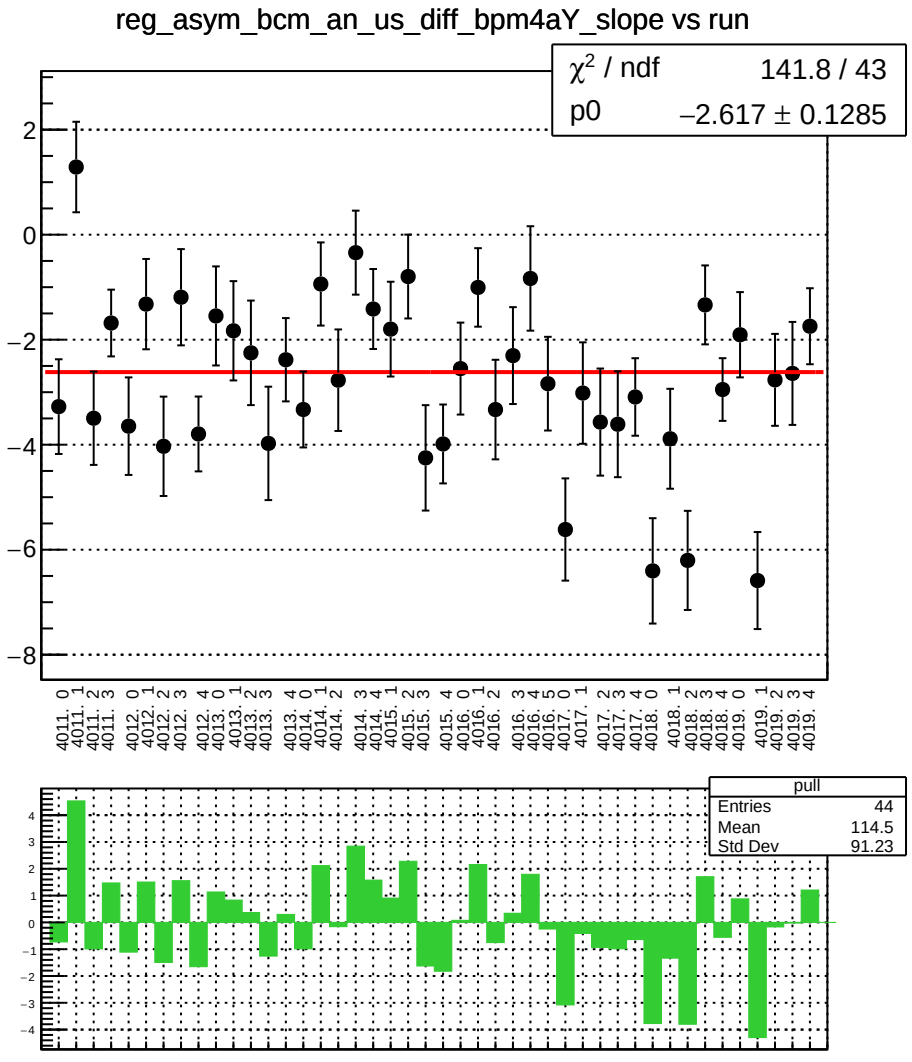

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 150 / 43
p0 4.768 ± 0.2255
pull
Entries 44
Mean 144.2
Std Dev 120.9

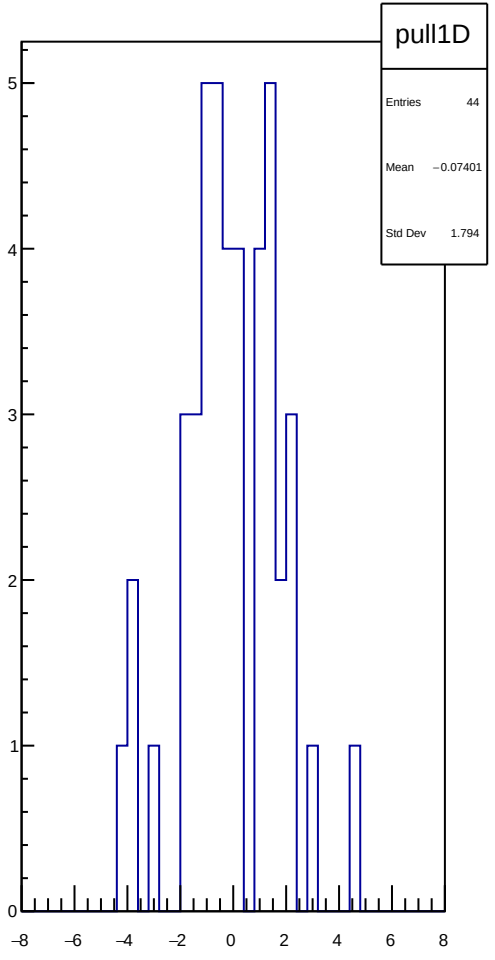

pull1D
Entries 44
Mean 0.04872
Std Dev 1.846

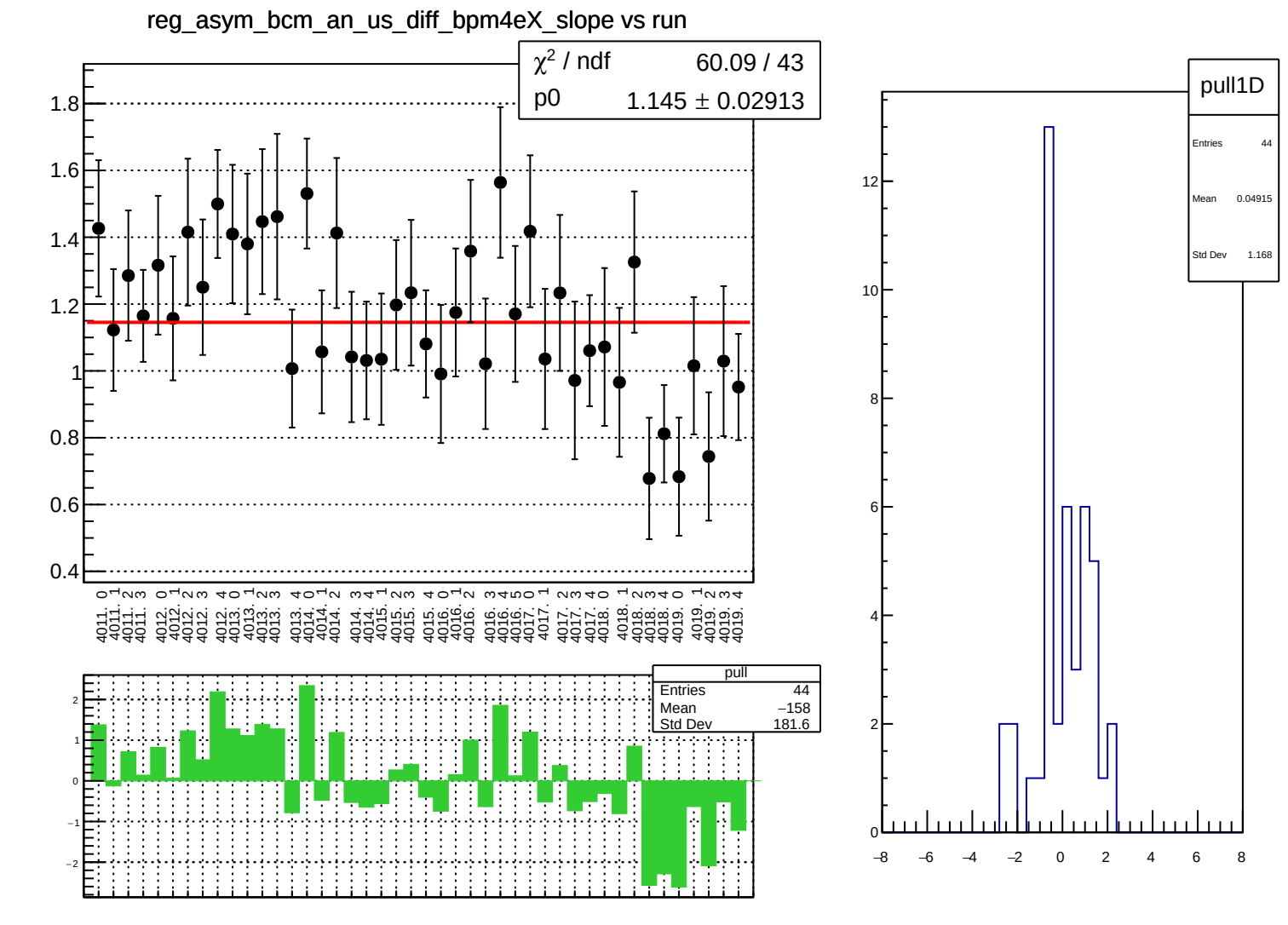

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 84.91 / 43
p0 2.671 ± 0.04419
4
3.5
3
2.5
2
1.5
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4016. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −15.13
Std Dev 41.94
3
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.1181
Std Dev 1.384
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

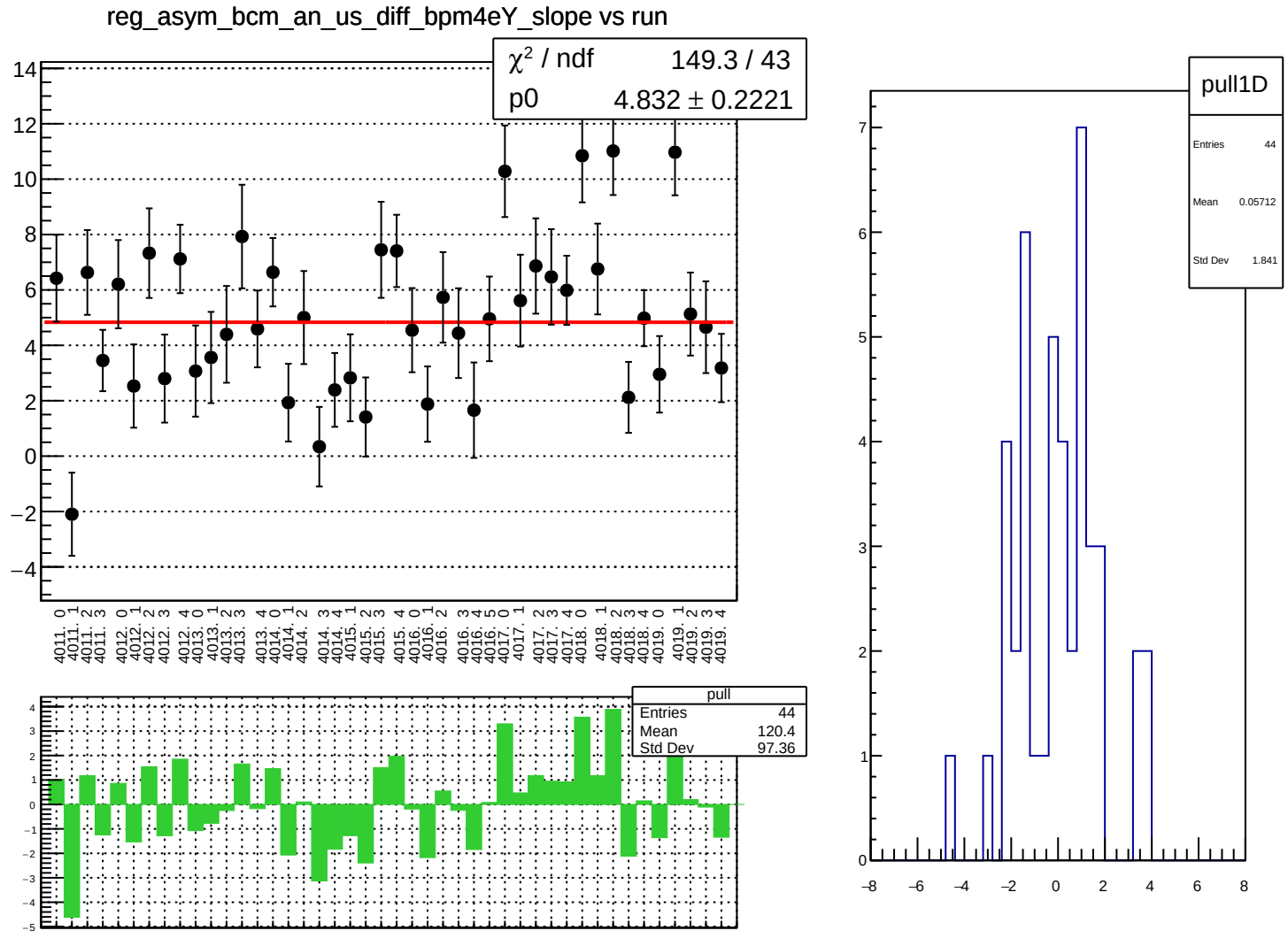

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 123.3 / 43
p0 −5.245 ± 0.1782
pull
Entries 44
Mean 72.59
Std Dev 53.96

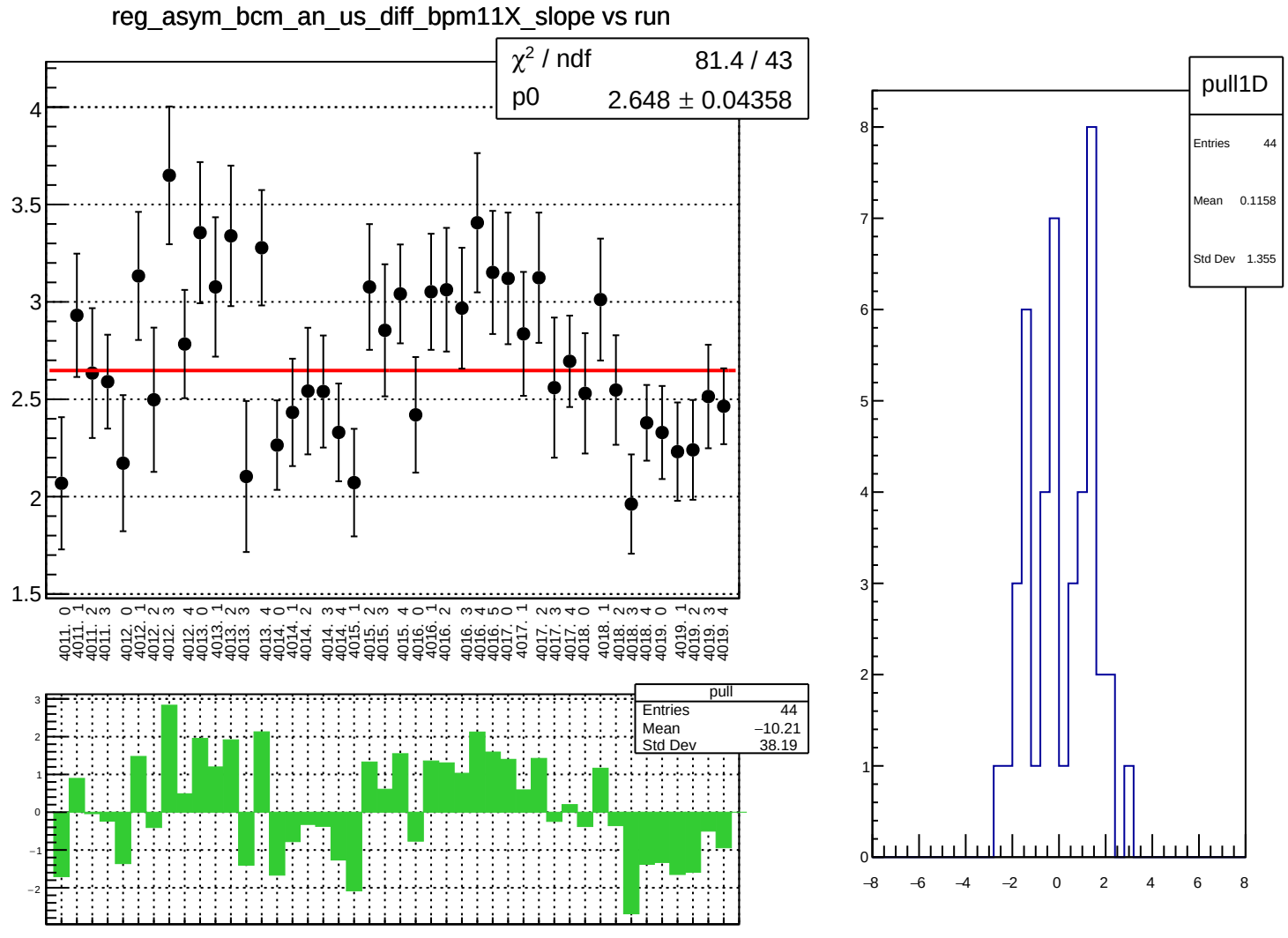

pull1D
Entries 44
Mean −0.03856
Std Dev 1.674

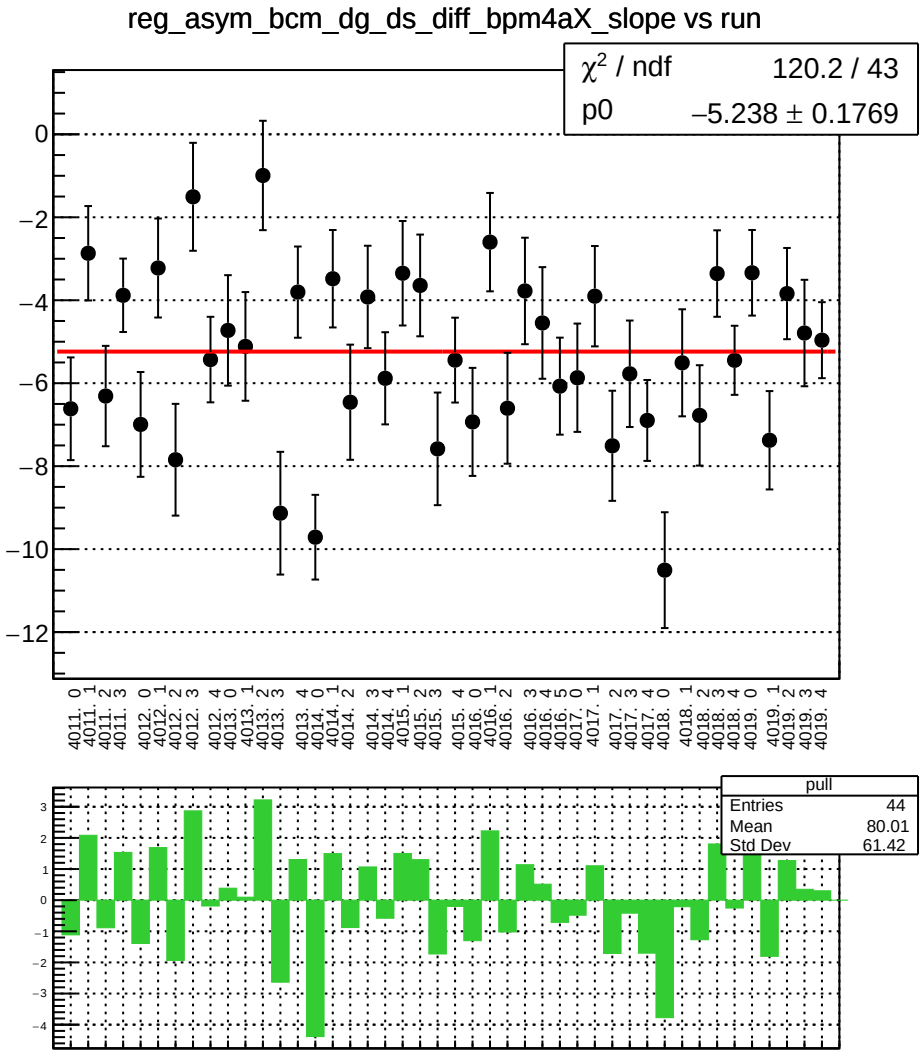

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 141.8 / 43
p0 −2.617 ± 0.1285
pull
Entries 44
Mean 114.5
Std Dev 91.23

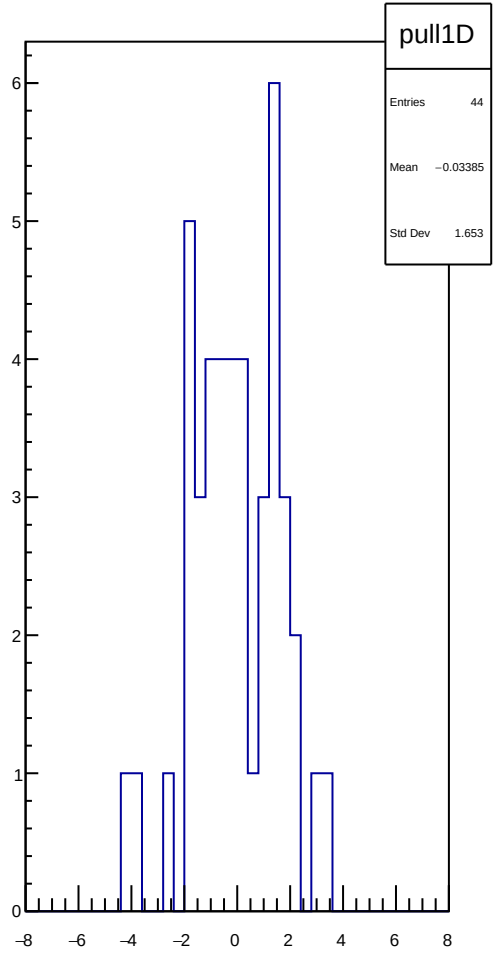

pull1D
Entries 44
Mean −0.07401
Std Dev 1.794

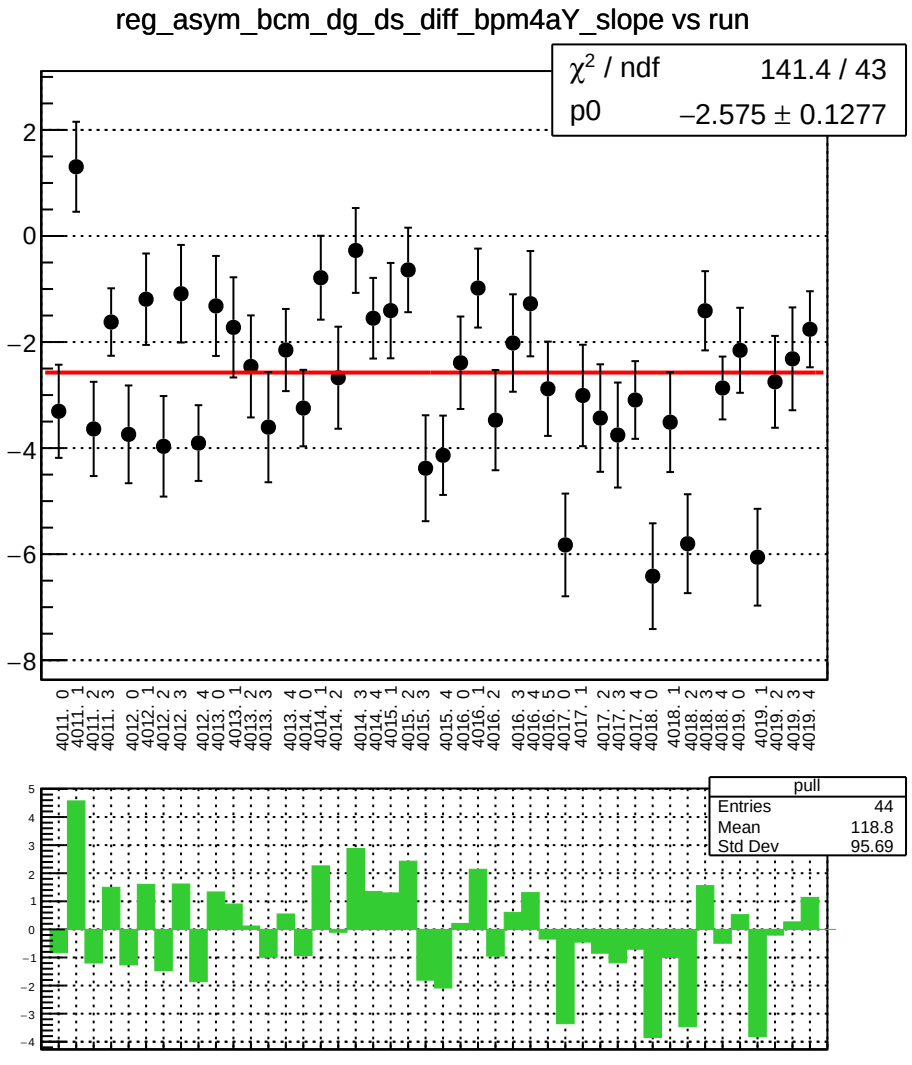

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 60.09 / 43
p0 1.145 ± 0.02913
pull
Entries 44
Mean −158
Std Dev 181.6
pull1D
Entries 44
Mean 0.04915
Std Dev 1.168

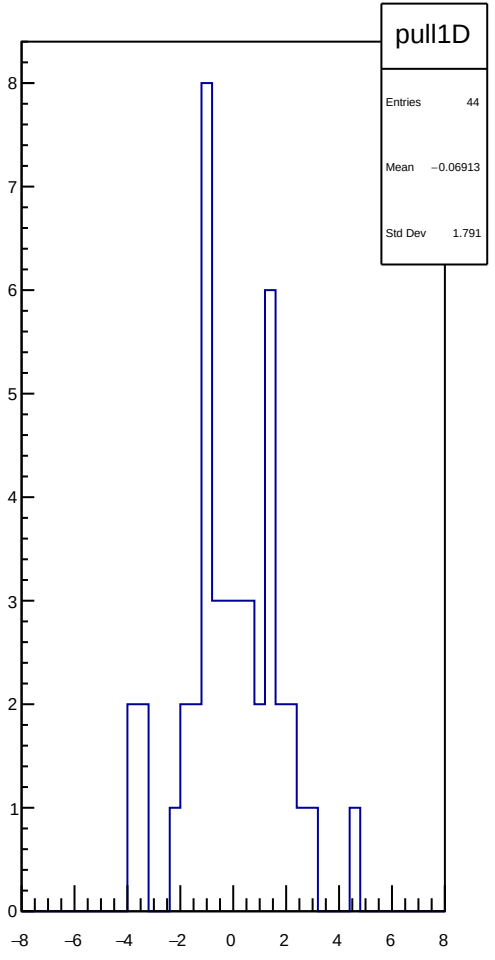

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 149.3 / 43
p0 4.832 ± 0.2221
pull
Entries 44
Mean 120.4
Std Dev 97.36
pull1D
Entries 44
Mean 0.05712
Std Dev 1.841

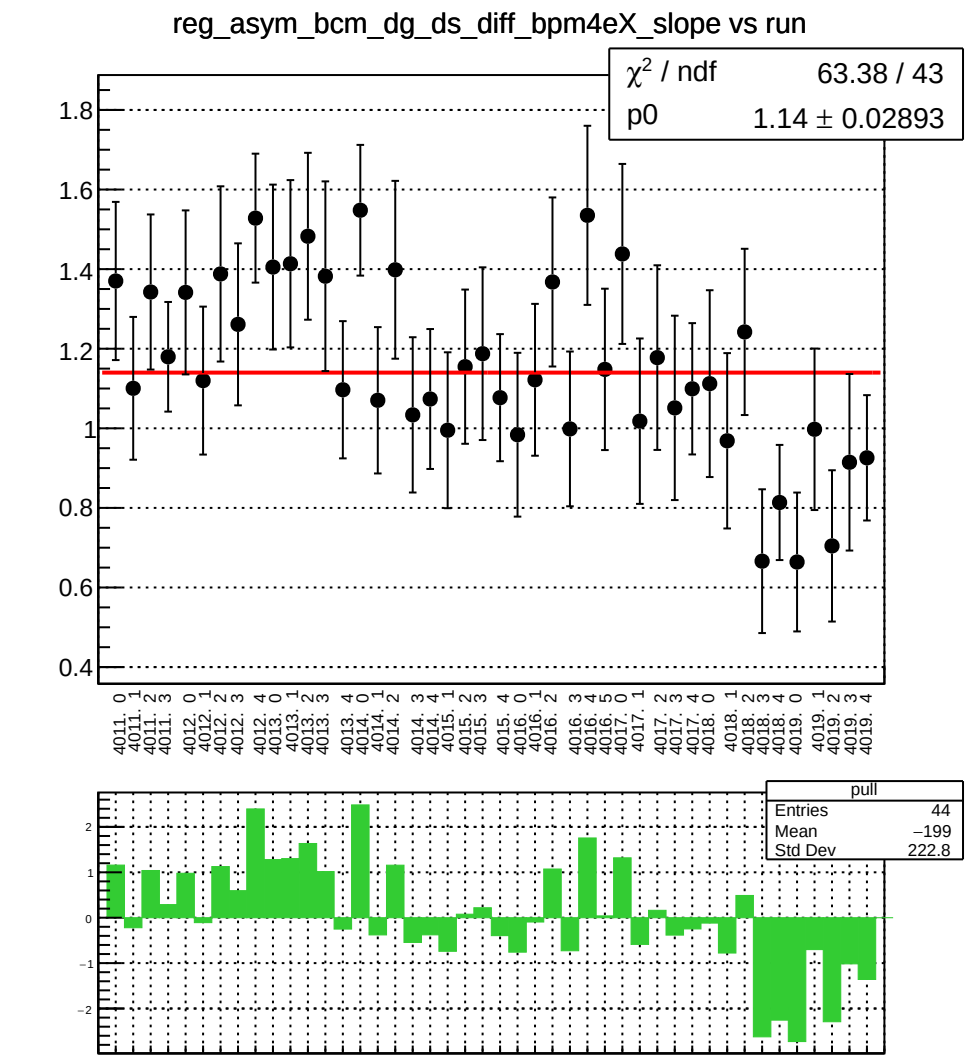

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 81.4 / 43
p0 2.648 ± 0.04358
pull
Entries 44
Mean −10.21
Std Dev 38.19
pull1D
Entries 44
Mean 0.1158
Std Dev 1.355

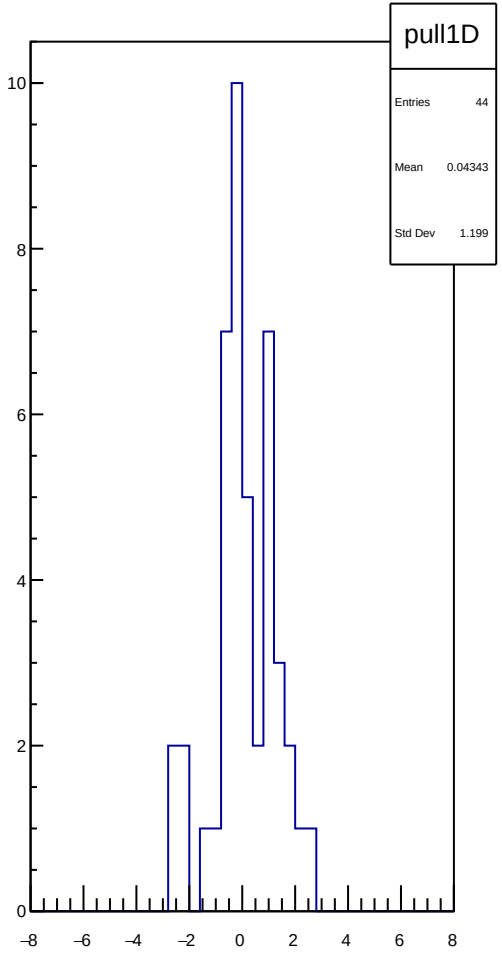

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 120.2 / 43
p0 −5.238 ± 0.1769
pull
Entries 44
Mean 80.01
Std Dev 61.42

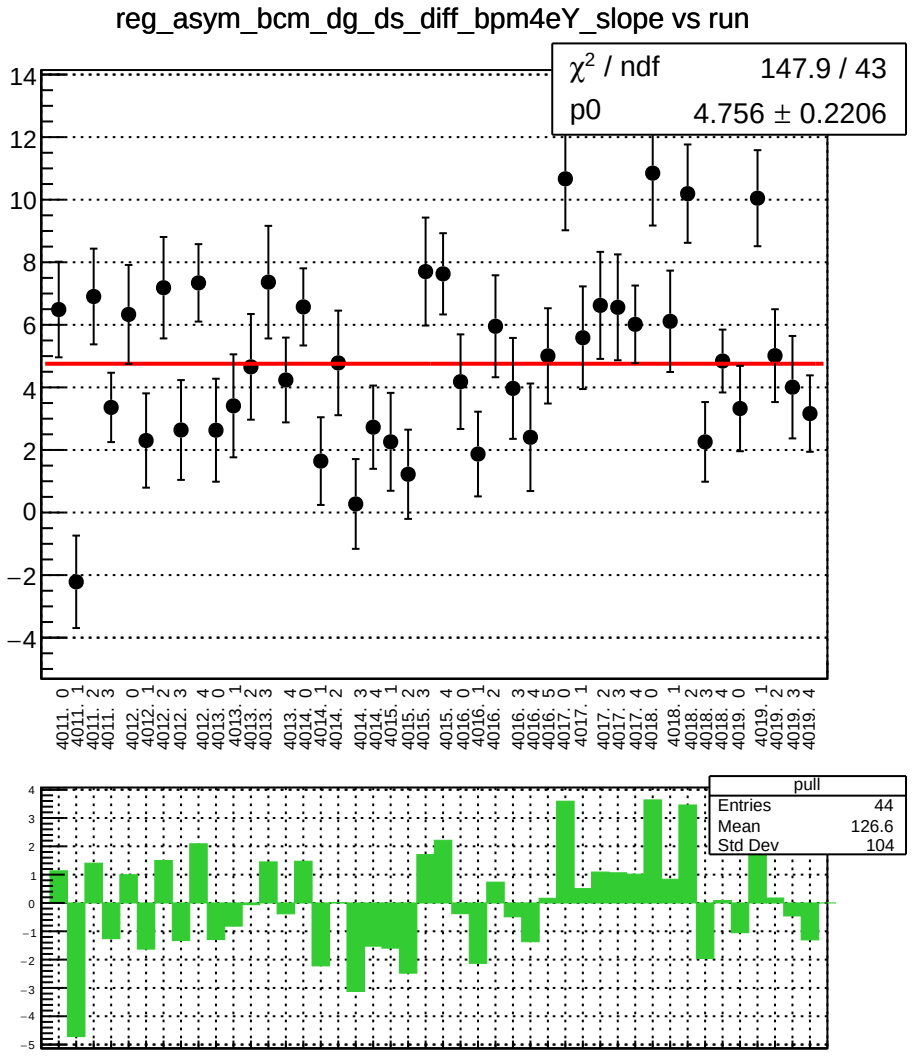

pull1D
Entries 44
Mean −0.03385
Std Dev 1.653

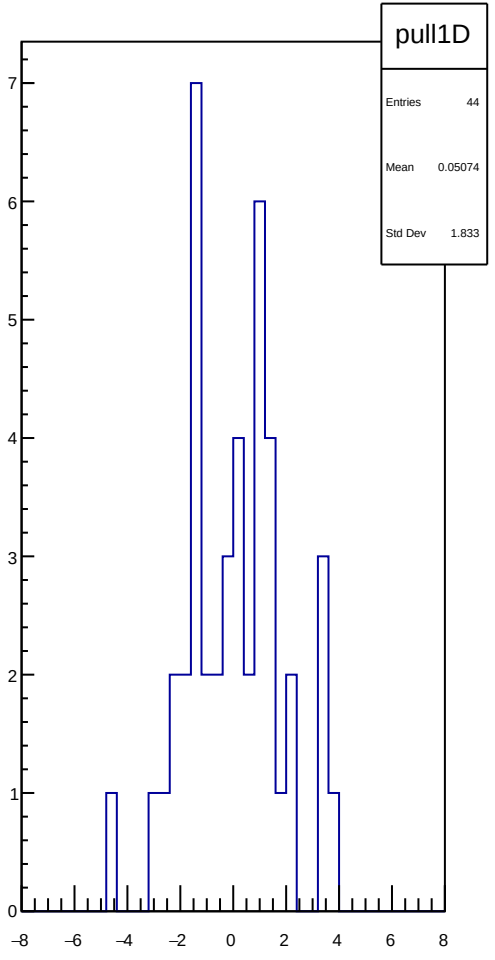

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 141.4 / 43
p0 −2.575 ± 0.1277
pull
Entries 44
Mean 118.8
Std Dev 95.69

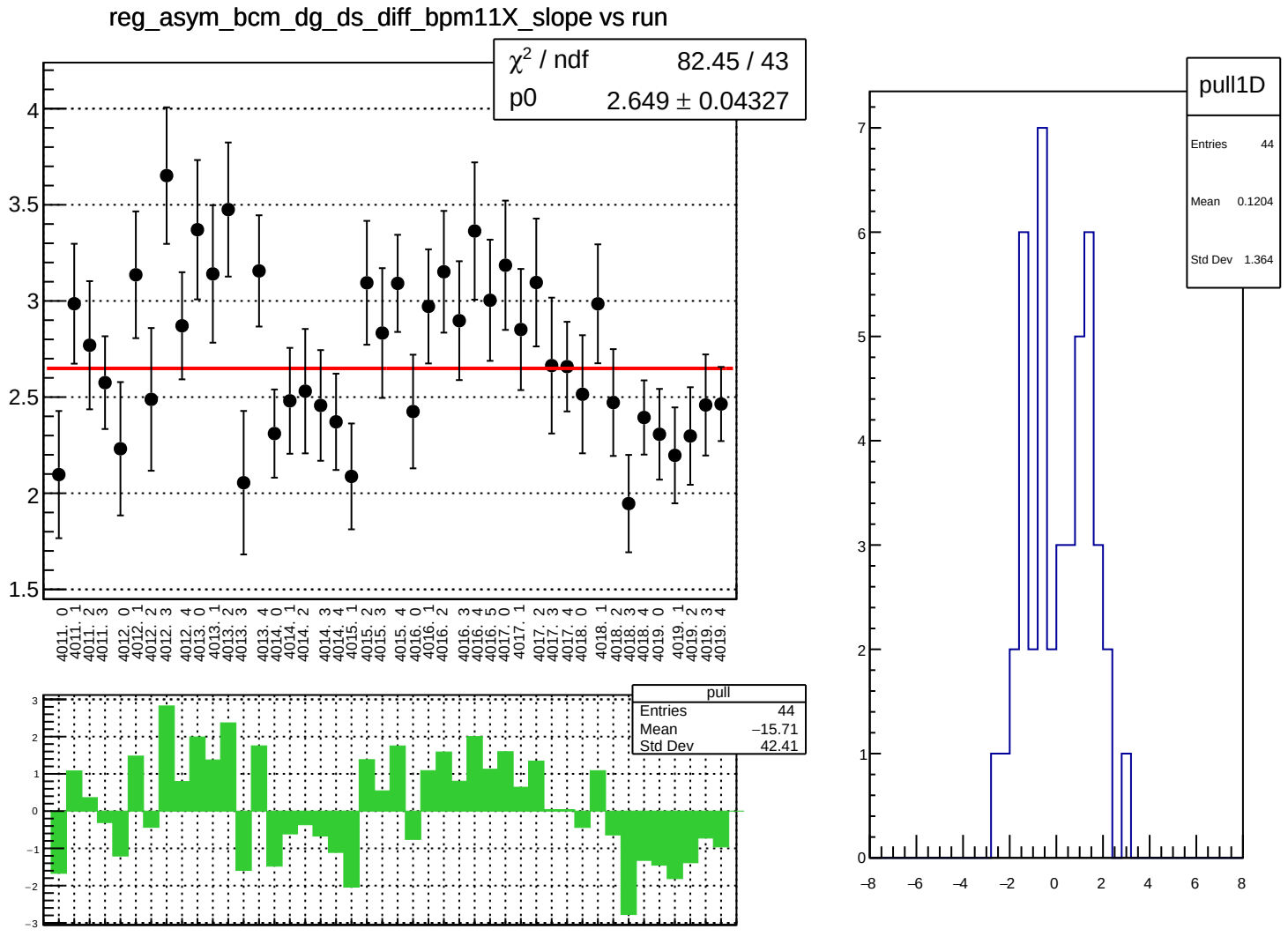

pull1D
Entries 44
Mean −0.06913
Std Dev 1.791

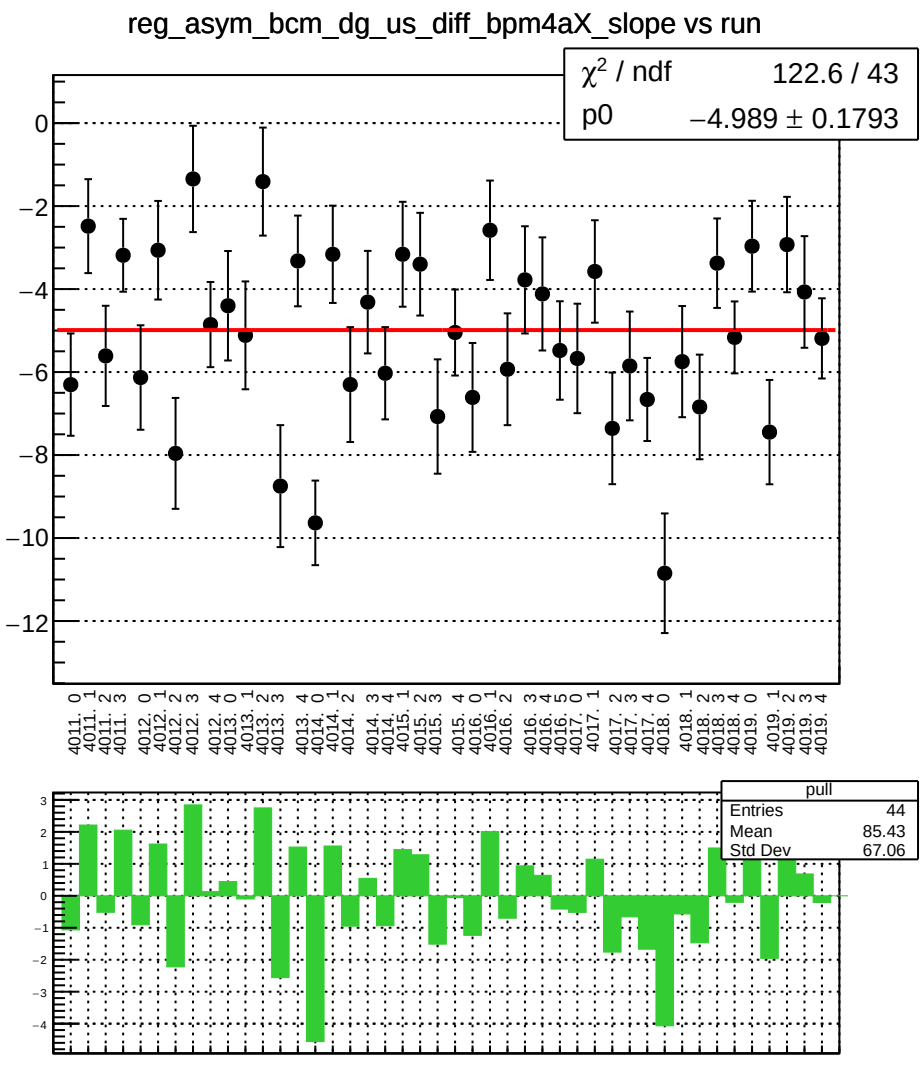

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 63.38 / 43
p0 1.14 ± 0.02893
pull
Entries 44
Mean −199
Std Dev 222.8

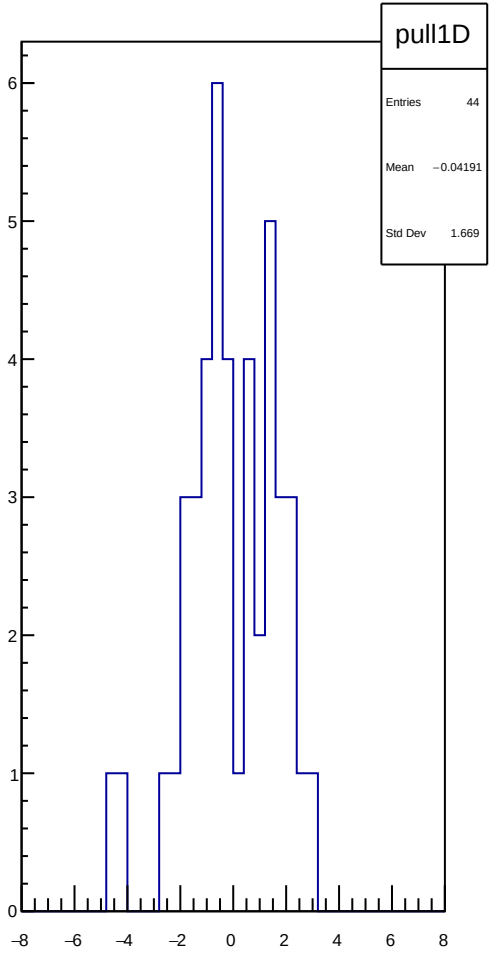

pull1D
Entries 44
Mean 0.04343
Std Dev 1.199

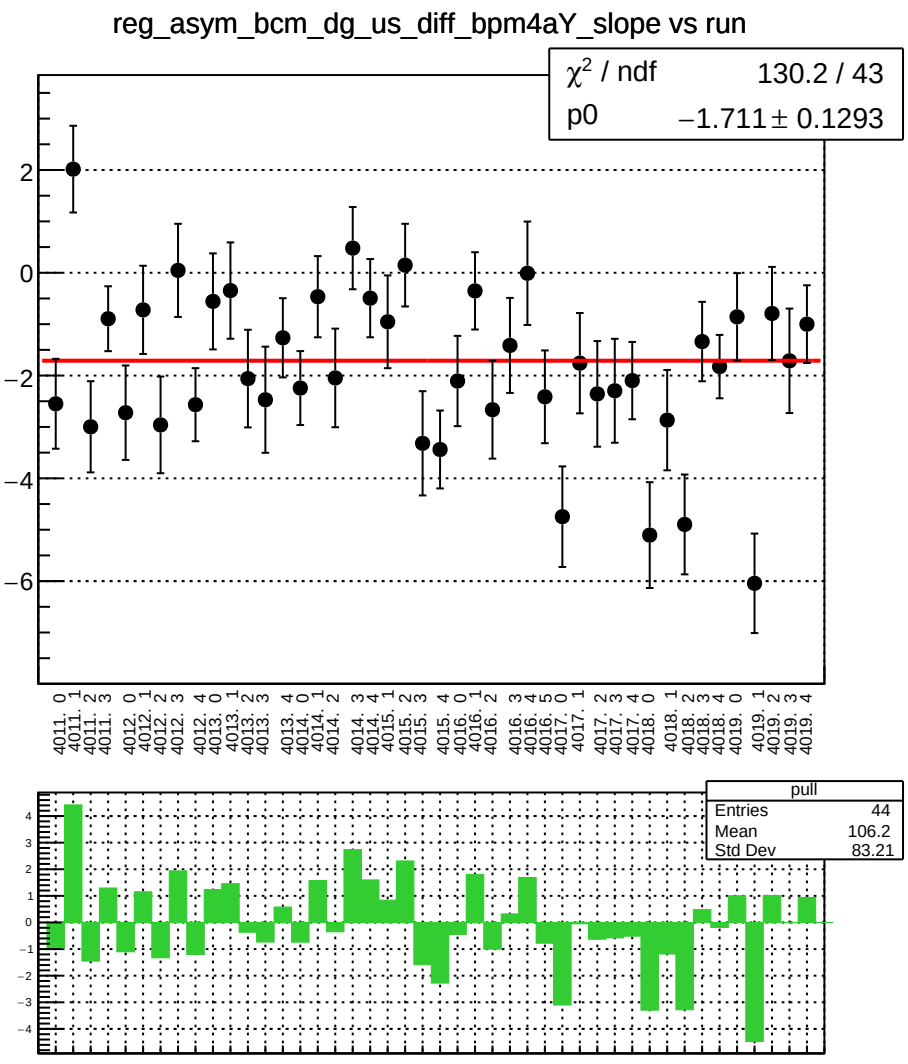

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 147.9 / 43
p0 4.756 ± 0.2206
pull
Entries 44
Mean 126.6
Std Dev 104

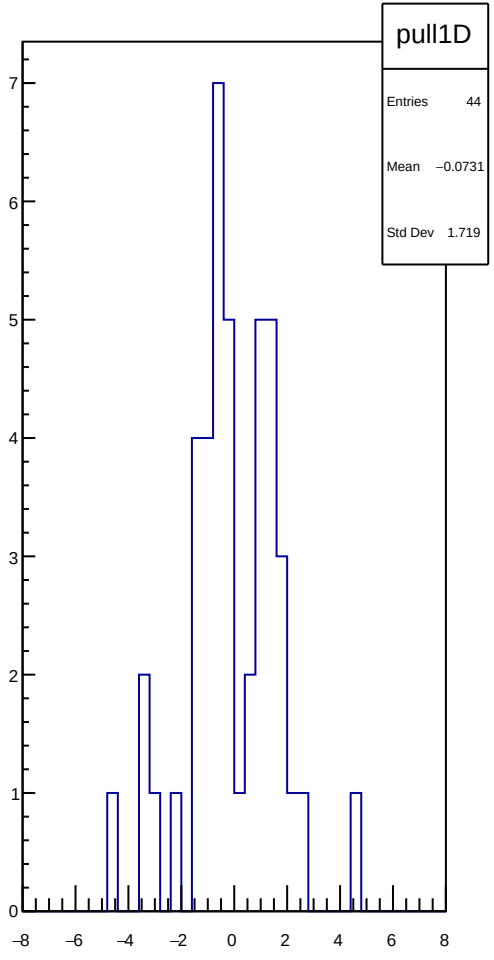

pull1D
Entries 44
Mean 0.05074
Std Dev 1.833

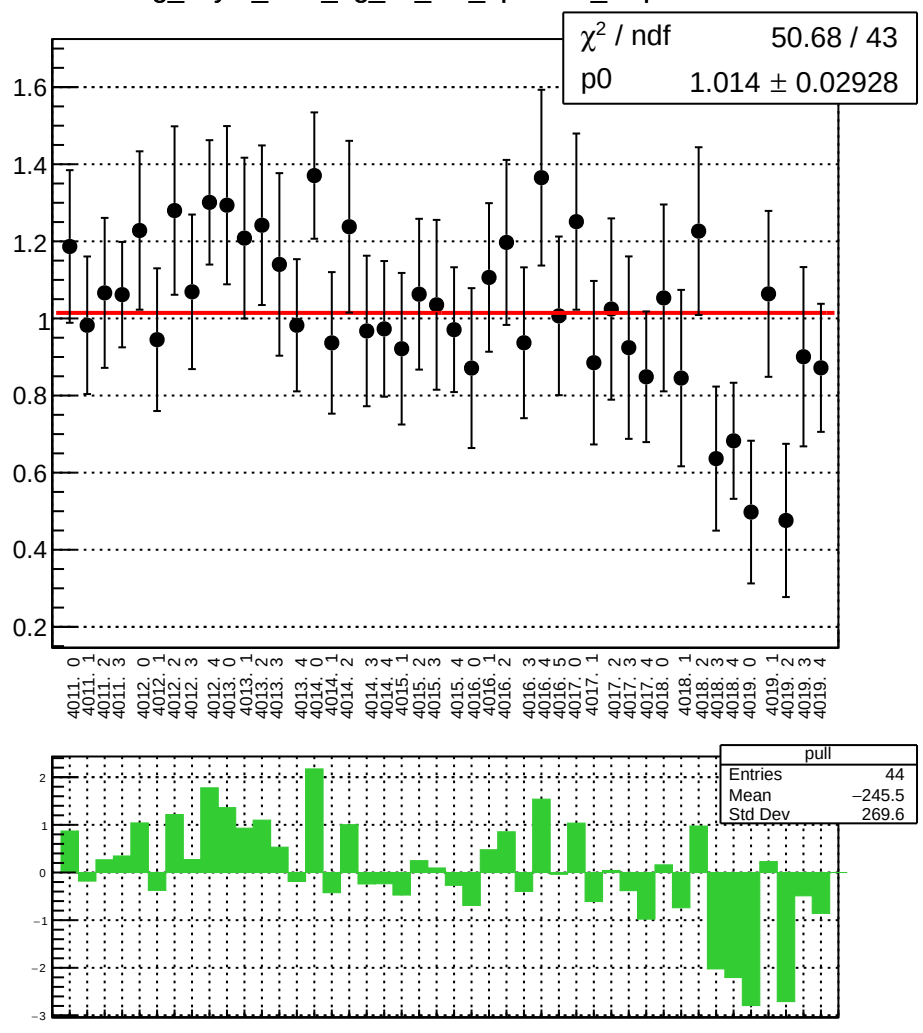

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 82.45 / 43
p0 2.649 ± 0.04327
pull
Entries 44
Mean −15.71
Std Dev 42.41
pull1D
Entries 44
Mean 0.1204
Std Dev 1.364

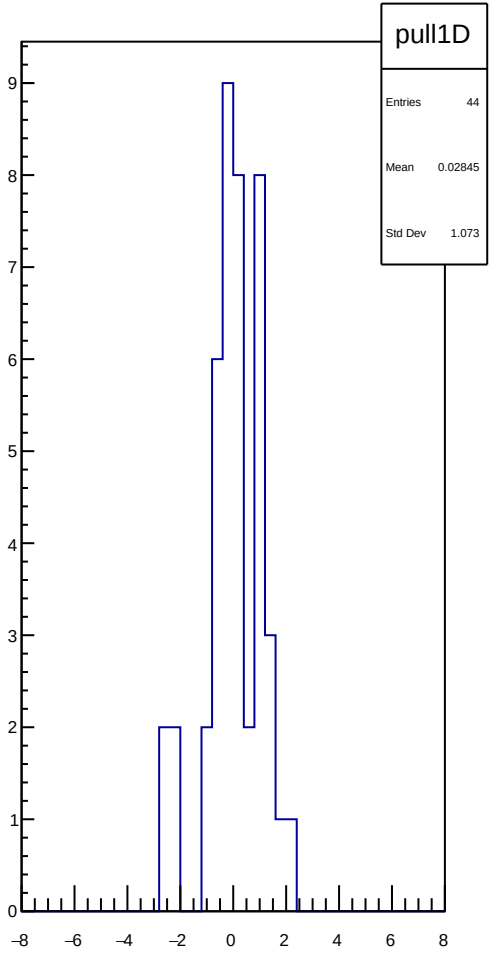

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 122.6 / 43
p0 −4.989 ± 0.1793
pull
Entries 44
Mean 85.43
Std Dev 67.06

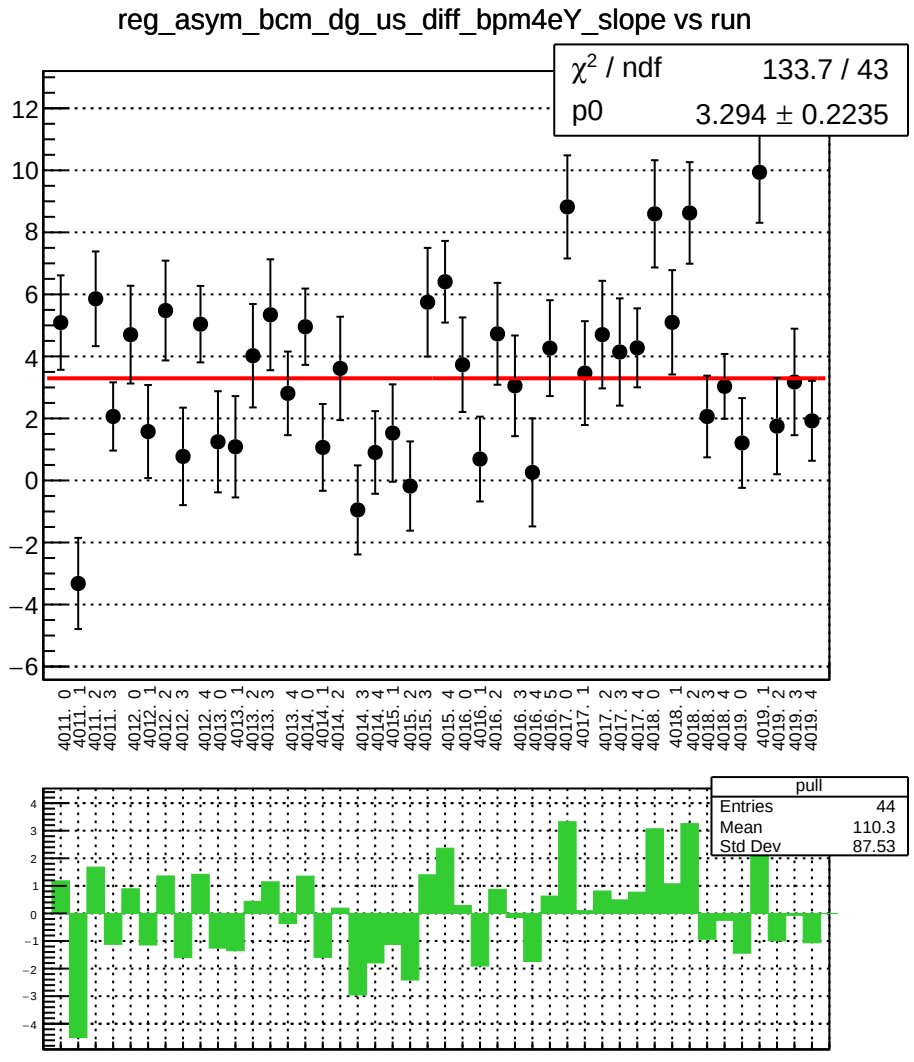

pull1D
Entries 44
Mean −0.04191
Std Dev 1.669

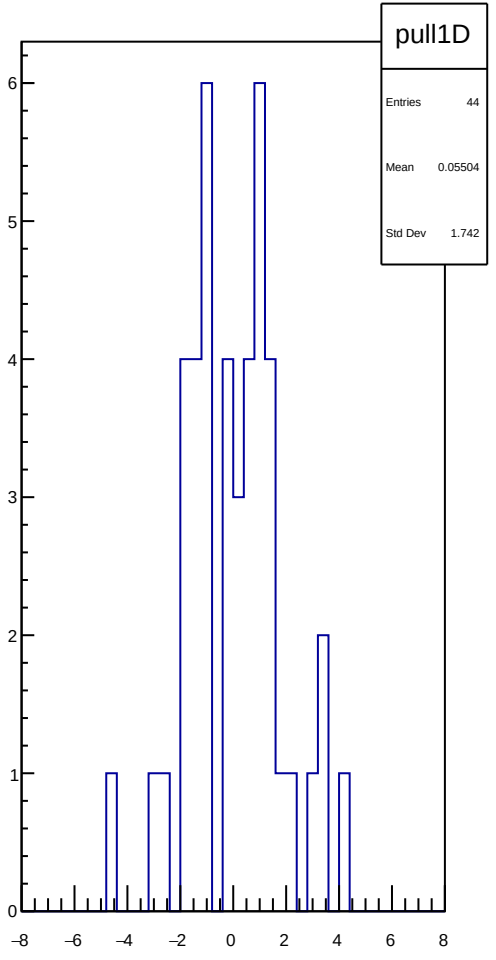

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 130.2 / 43
p0 −1.711 ± 0.1293
pull
Entries 44
Mean 106.2
Std Dev 83.21

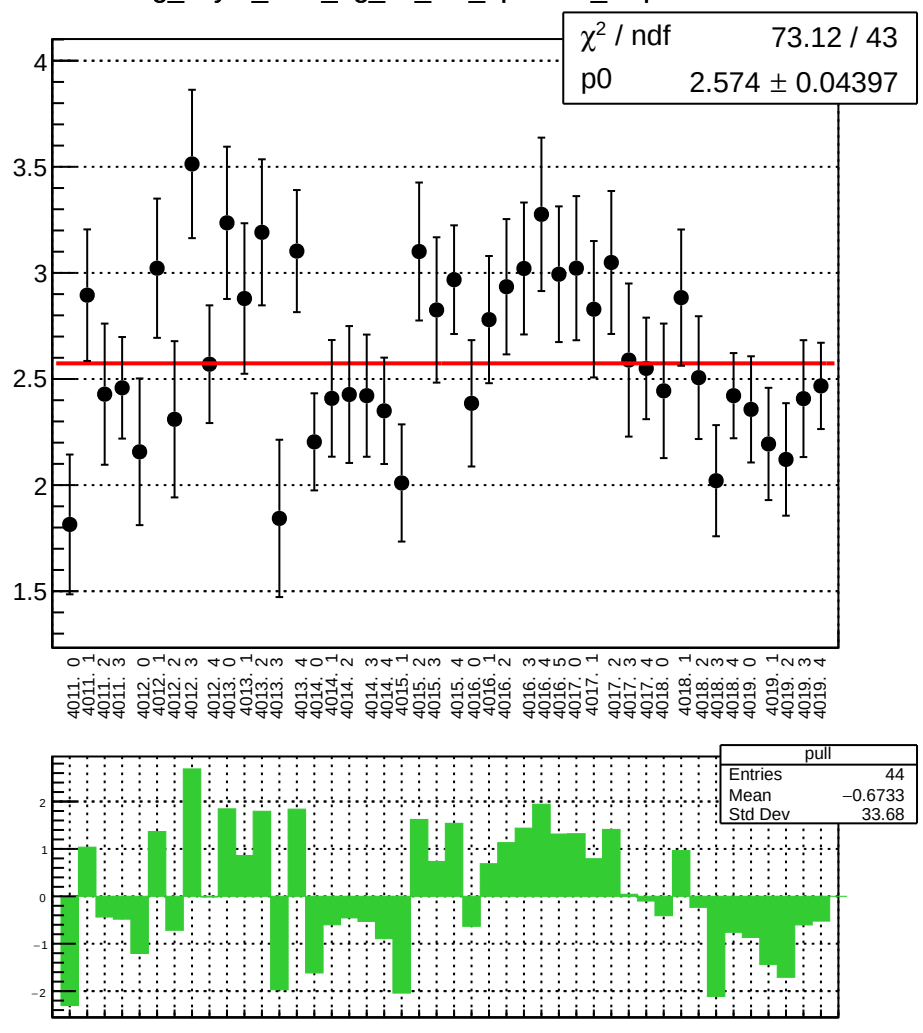

pull1D
Entries 44
Mean −0.0731
Std Dev 1.719

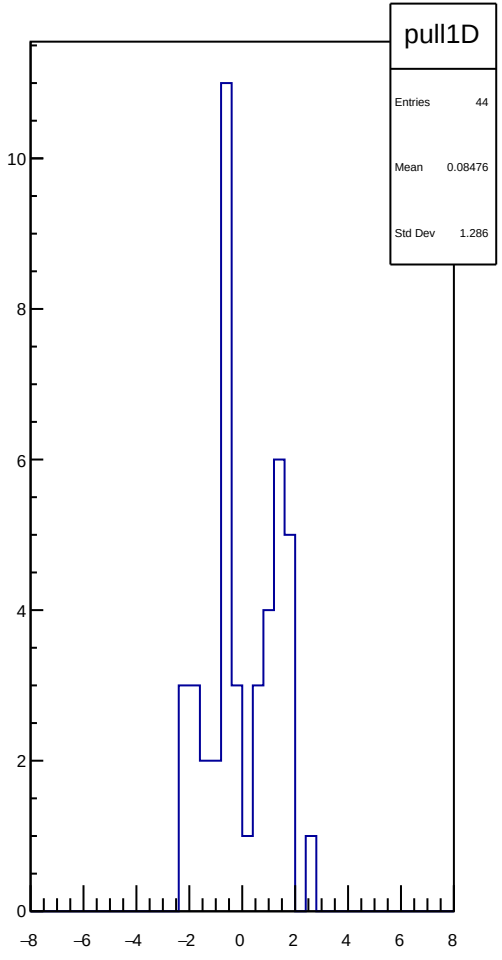

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 50.68 / 43
p0 1.014 ± 0.02928
pull
Entries 44
Mean −245.5
Std Dev 269.6

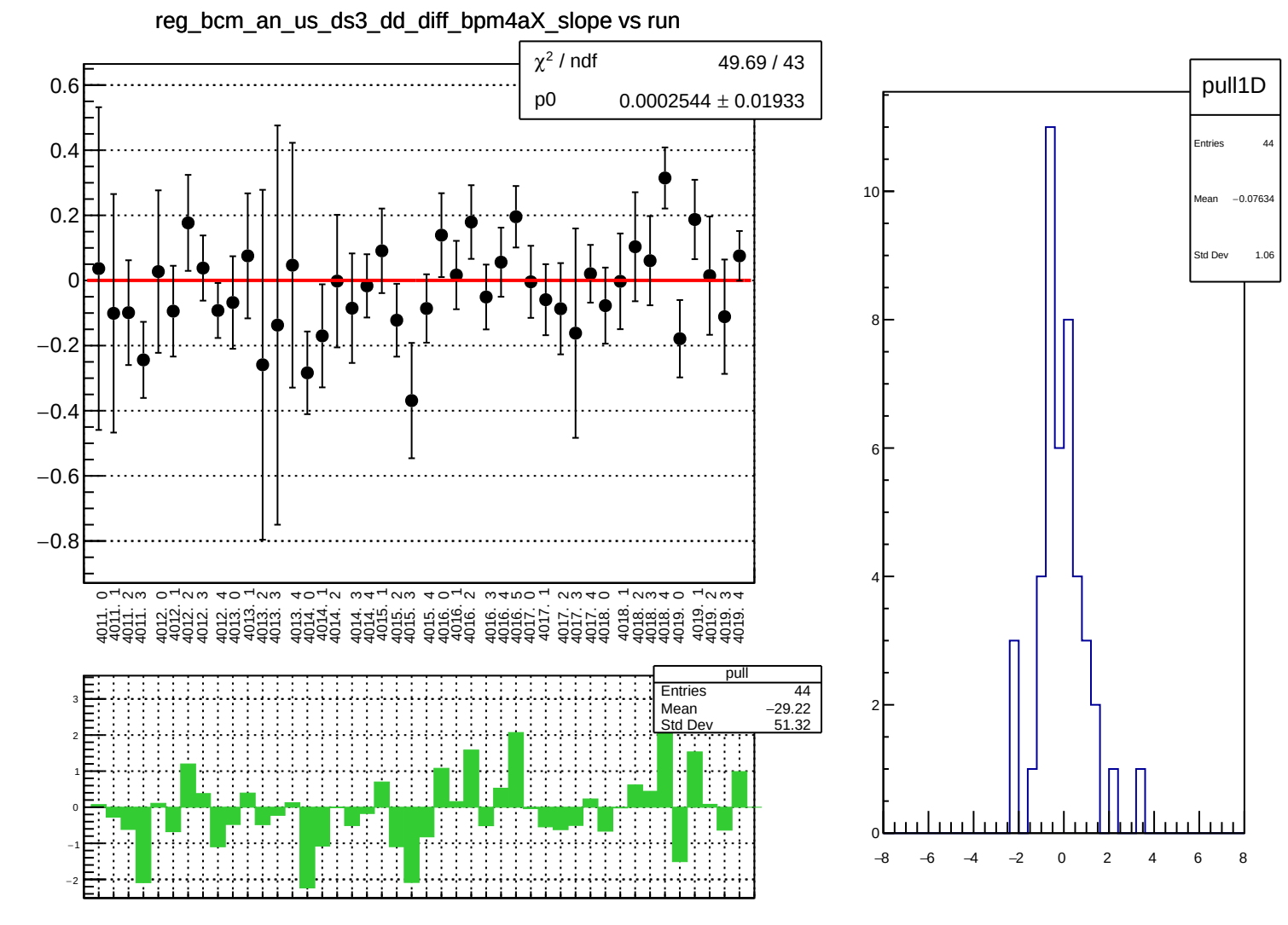

pull1D
Entries 44
Mean 0.02845
Std Dev 1.073

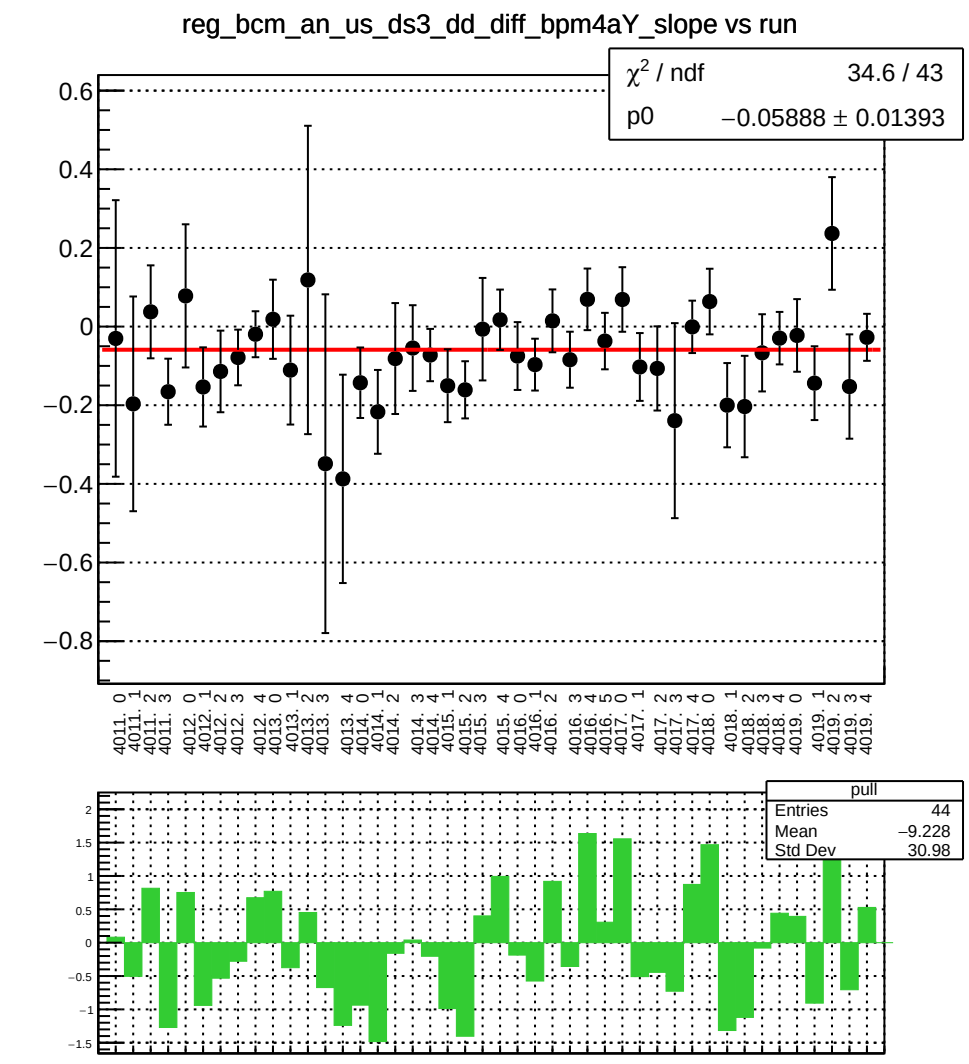

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 133.7 / 43
p0 3.294 ± 0.2235
pull
Entries 44
Mean 110.3
Std Dev 87.53

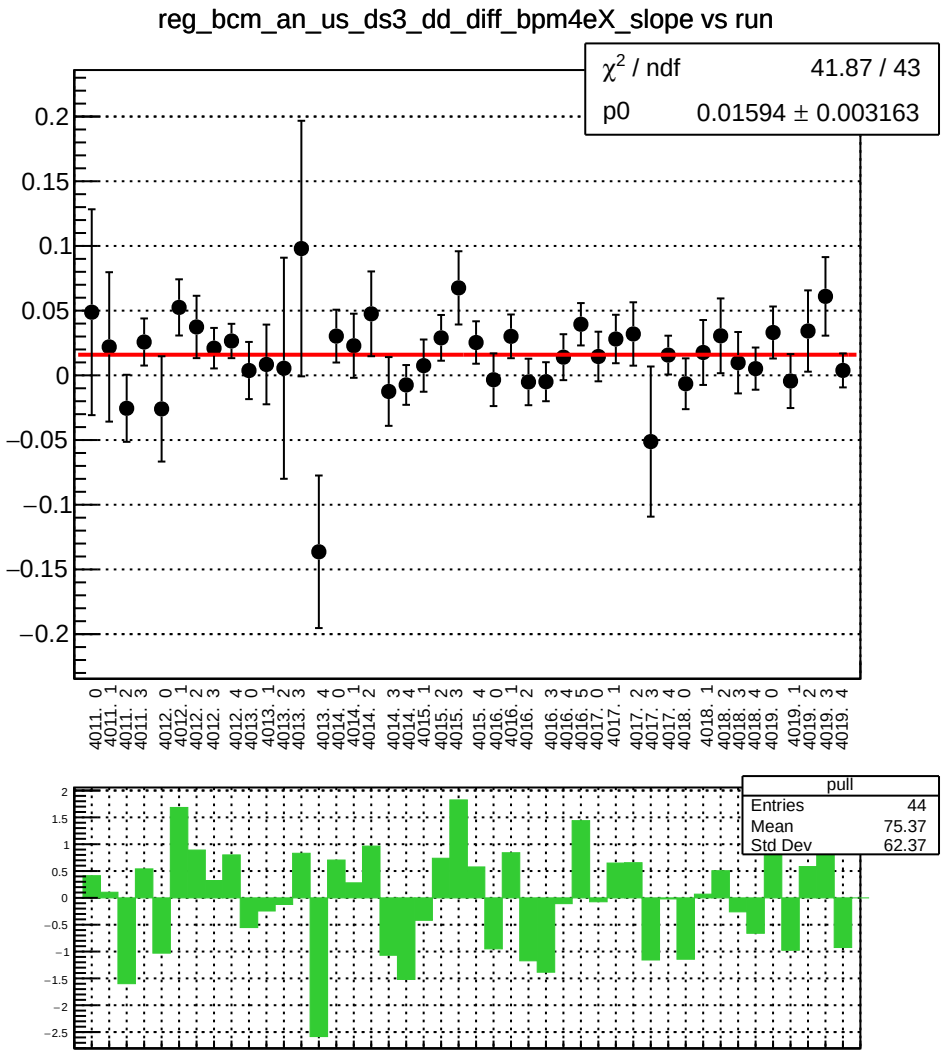

pull1D
Entries 44
Mean 0.05504
Std Dev 1.742

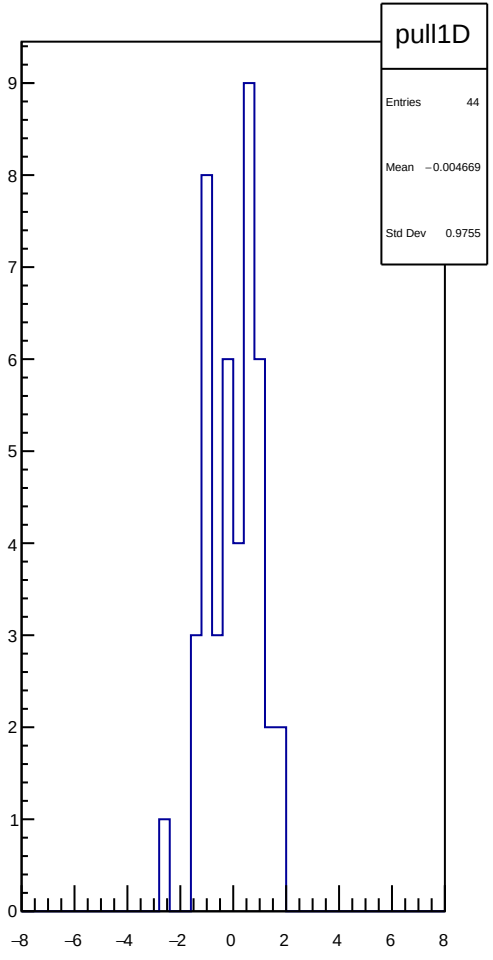

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 73.12 / 43
p0 2.574 ± 0.04397
pull
Entries 44
Mean −0.6733
Std Dev 33.68

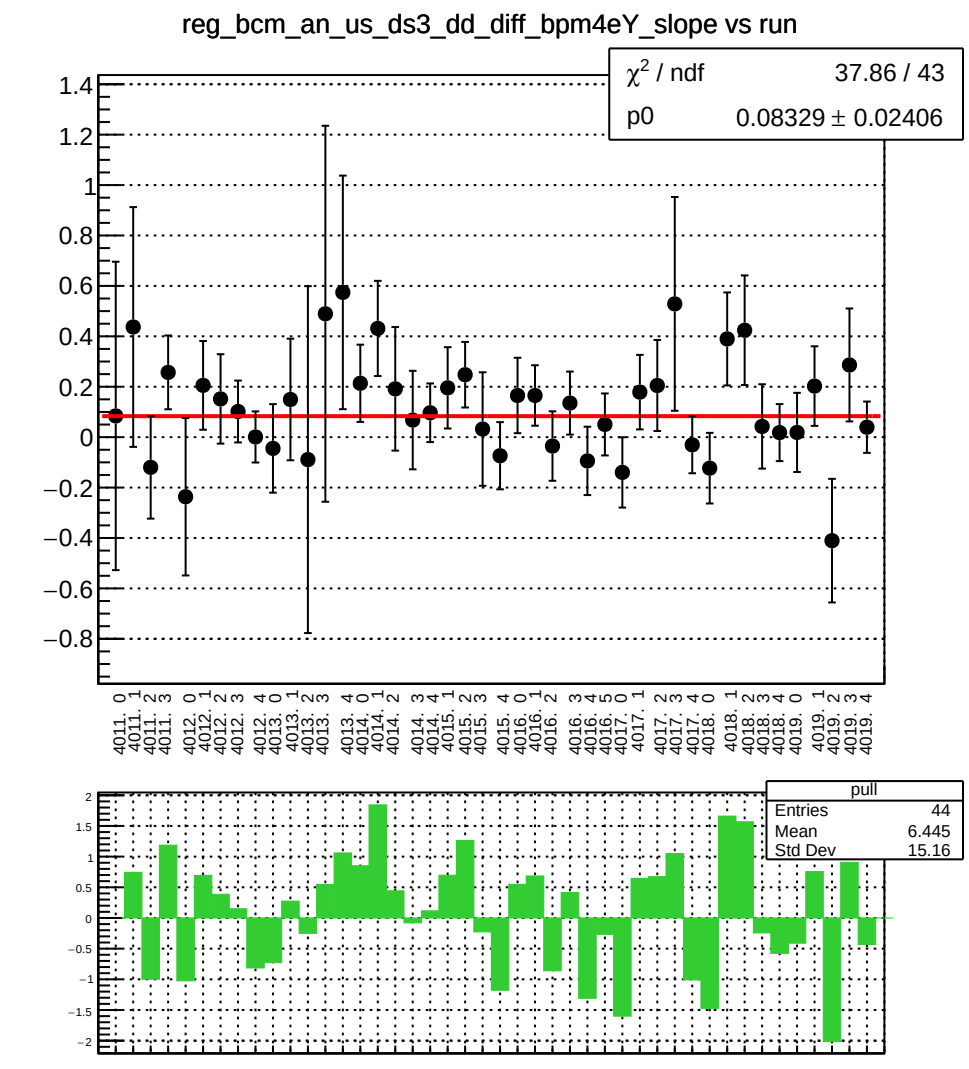

pull1D
Entries 44
Mean 0.08476
Std Dev 1.286

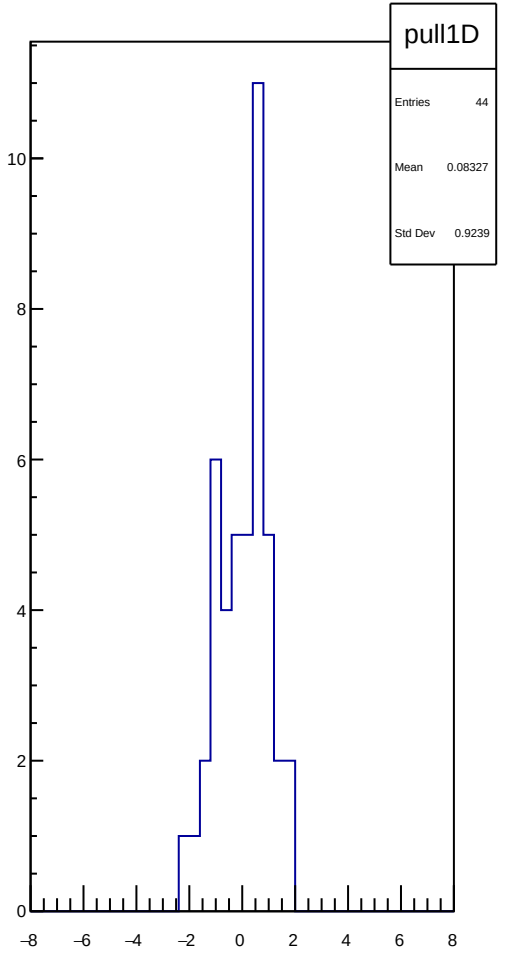

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 49.69 / 43
p0 0.0002544 ± 0.01933
pull
Entries 44
Mean −29.22
Std Dev 51.32
pull1D
Entries 44
Mean −0.07634
Std Dev 1.06

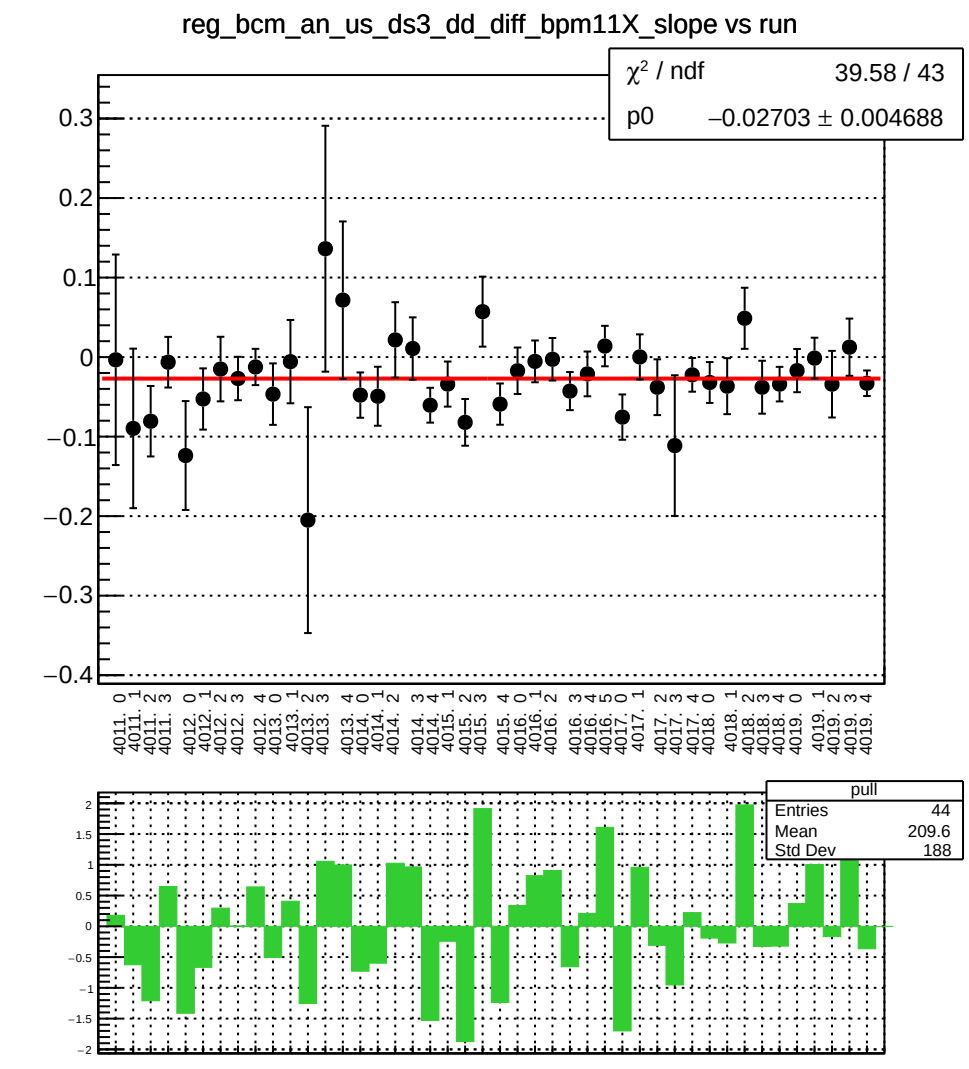

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.6 / 43
p0 −0.05888 ± 0.01393
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −9.228
Std Dev 30.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean −0.0623
Std Dev 0.8846
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

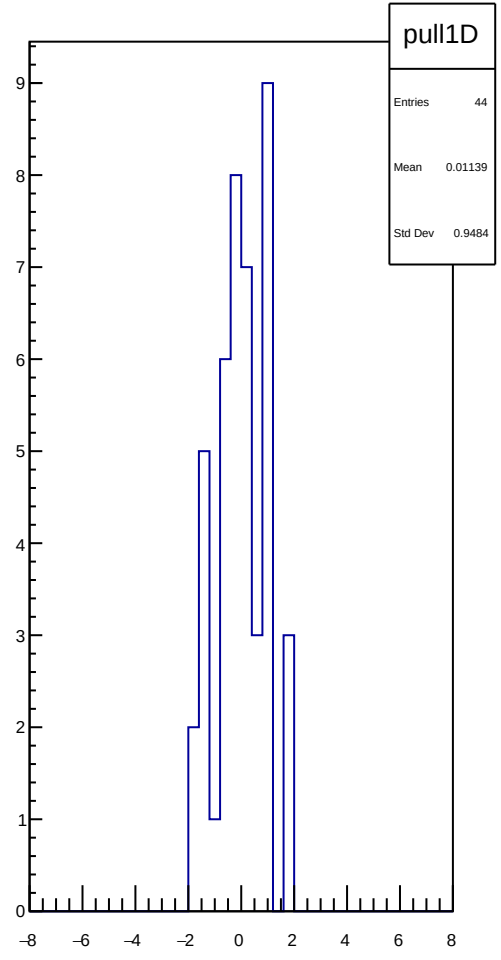

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.87 / 43
p0 0.01594 ± 0.003163
pull
Entries 44
Mean 75.37
Std Dev 62.37

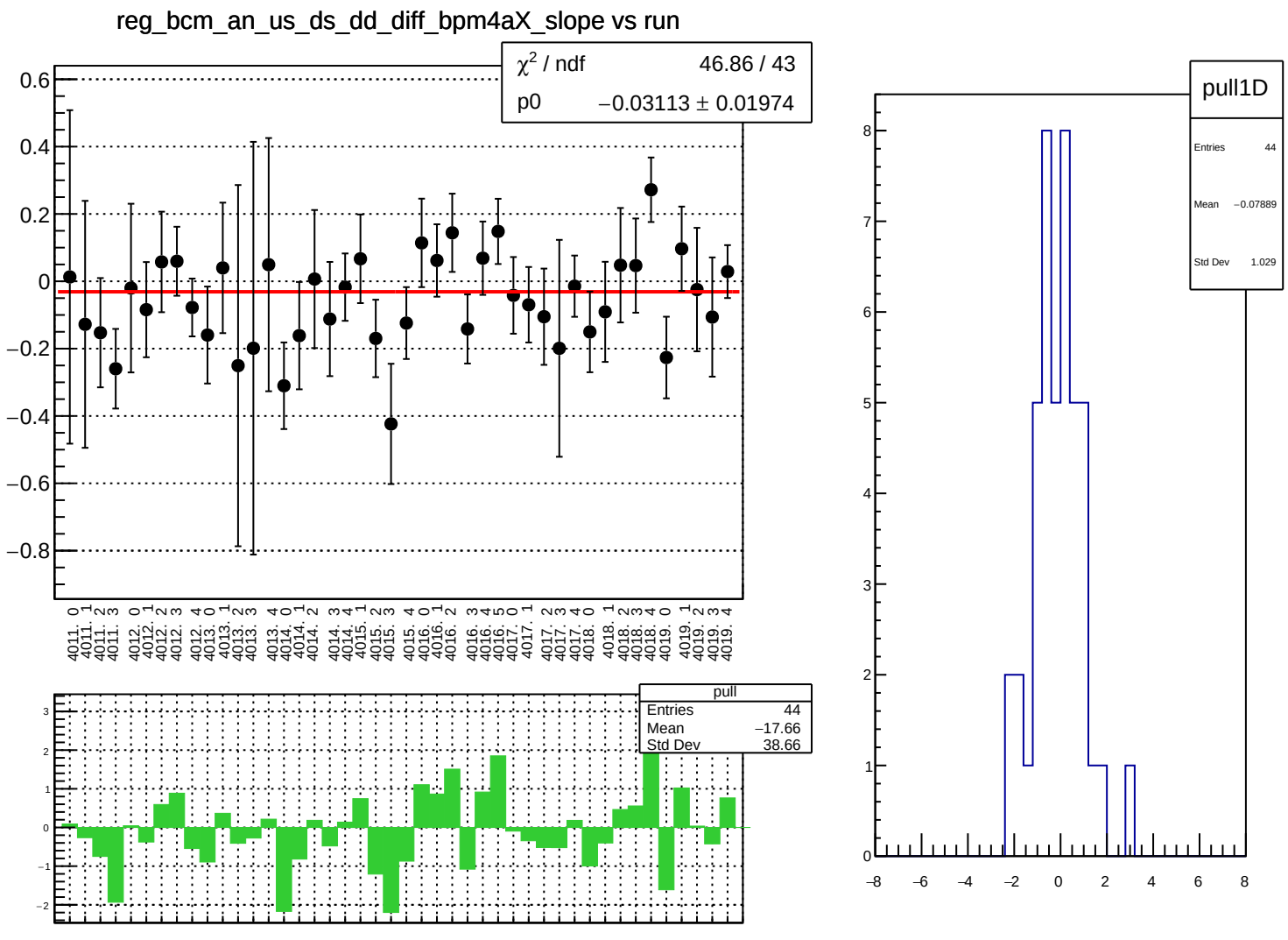

pull1D
Entries 44
Mean −0.004669
Std Dev 0.9755

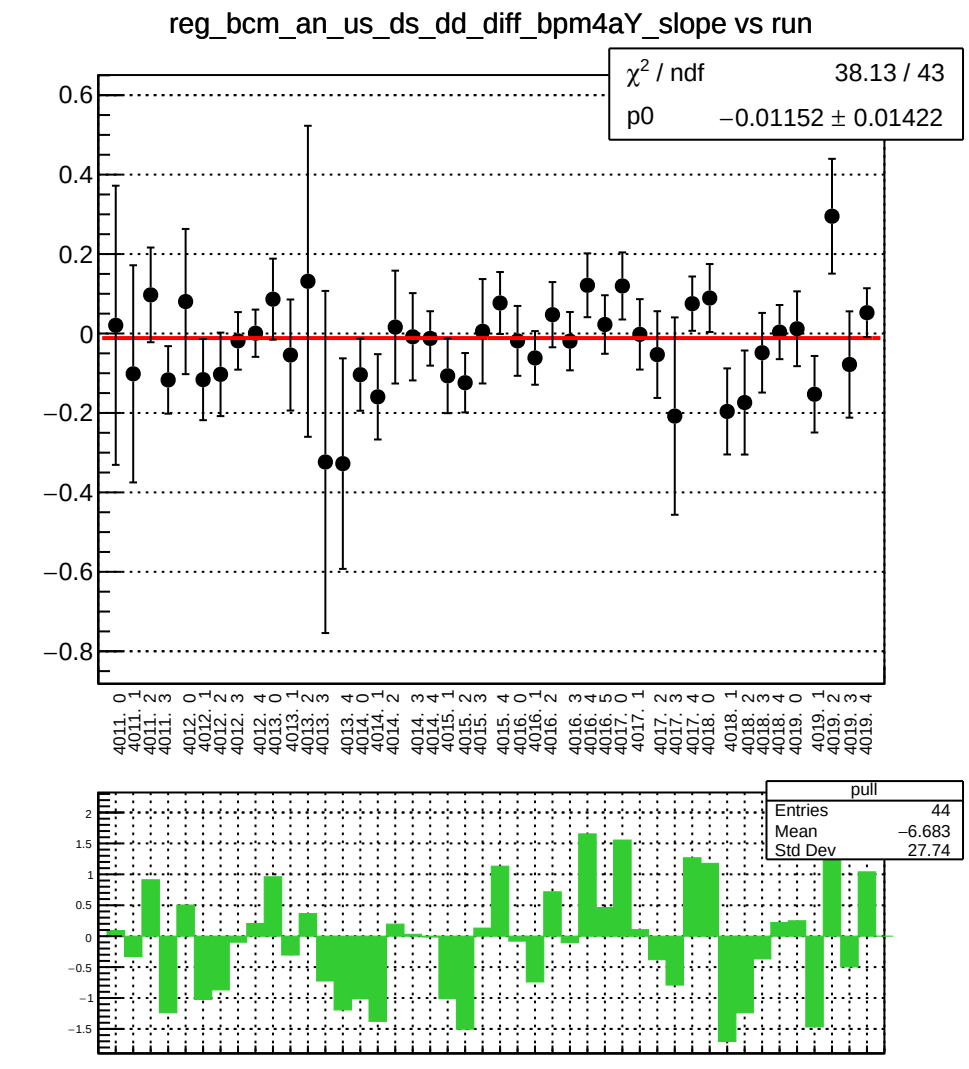

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.86 / 43
p0 0.08329 ± 0.02406
pull
Entries 44
Mean 6.445
Std Dev 15.16

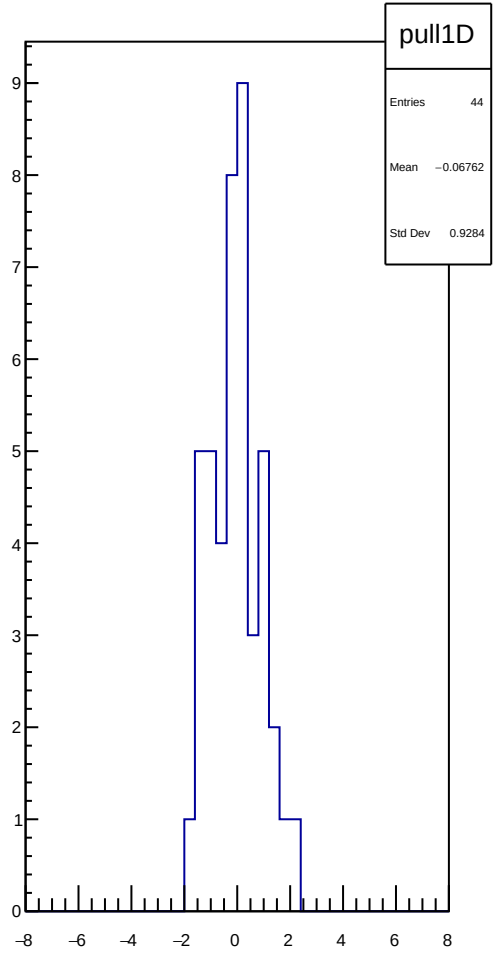

pull1D
Entries 44
Mean 0.08327
Std Dev 0.9239

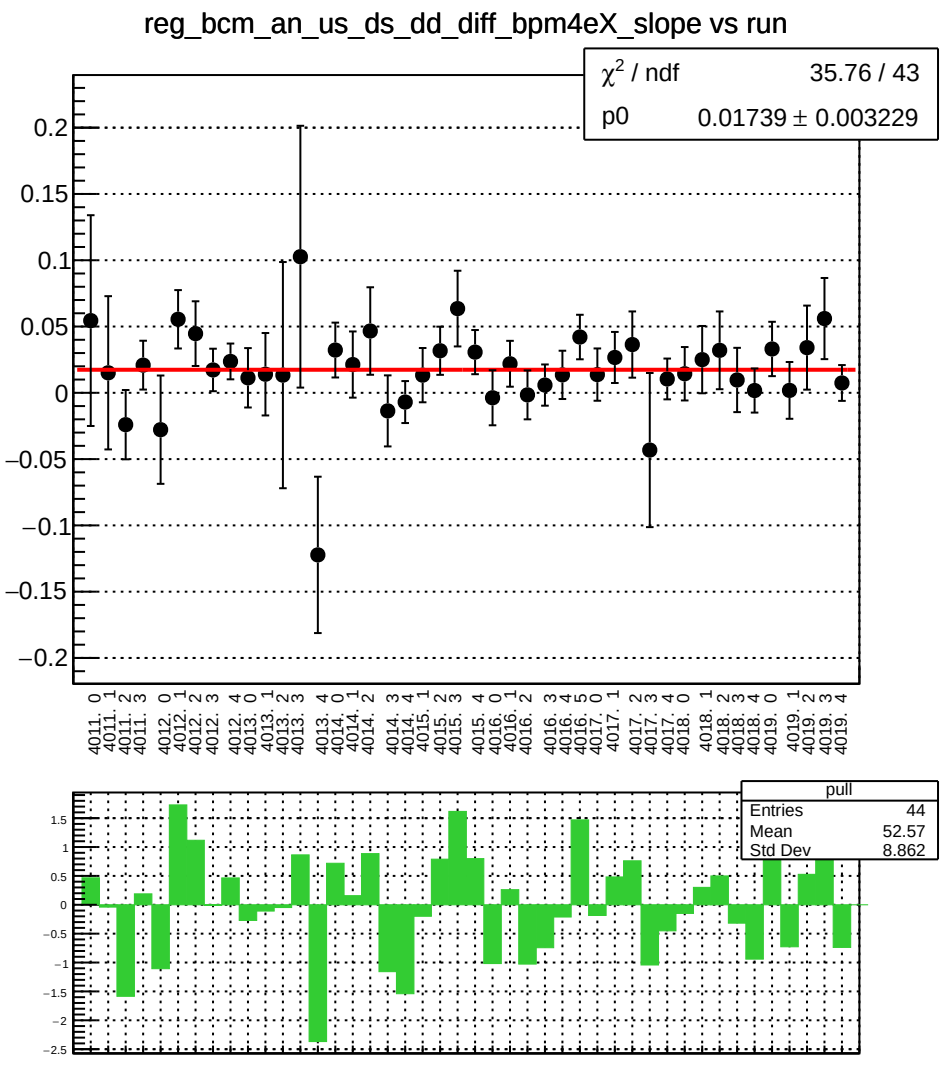

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 39.58 / 43
p0 −0.02703 ± 0.004688
pull
Entries 44
Mean 209.6
Std Dev 188

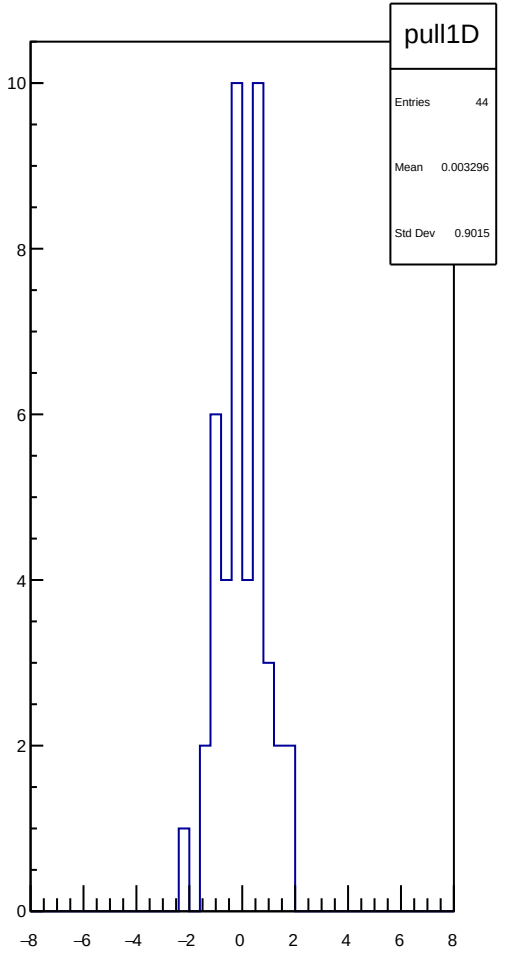

pull1D
Entries 44
Mean 0.01139
Std Dev 0.9484

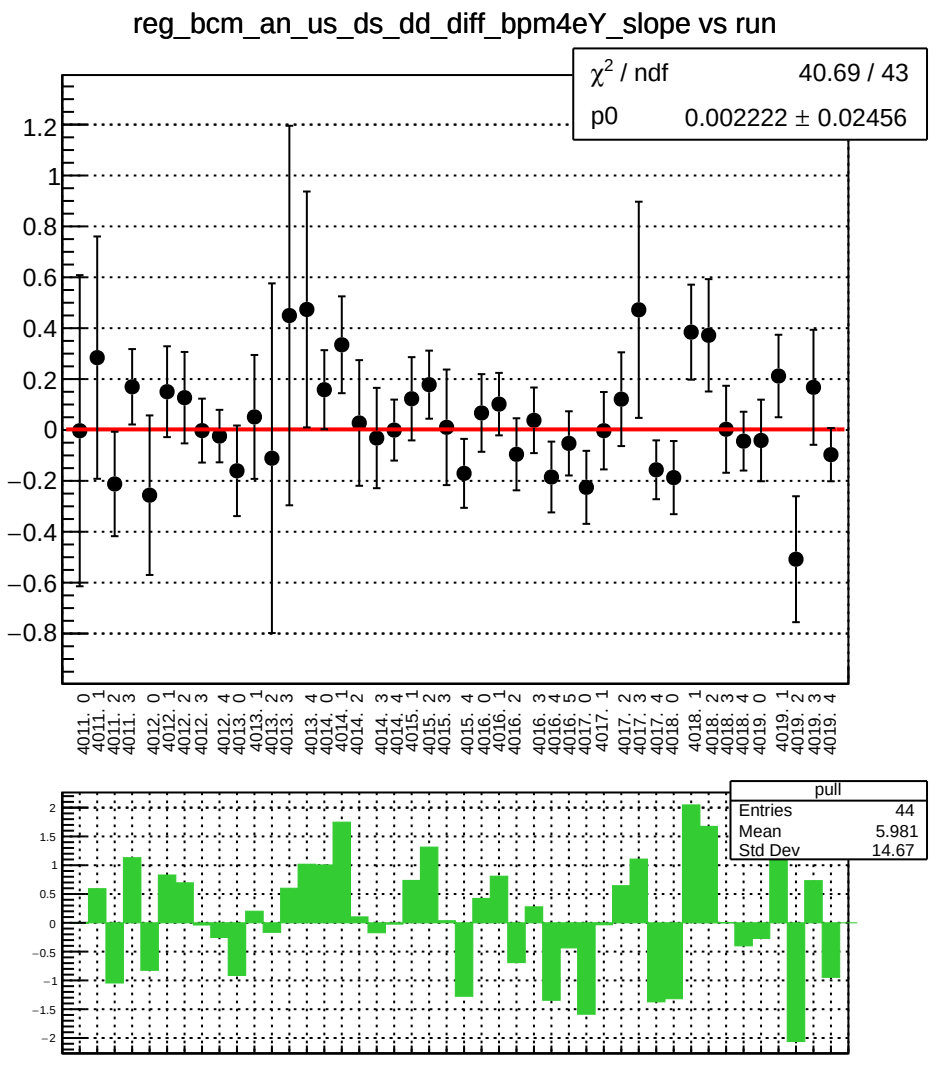

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 46.86 / 43
p0 −0.03113 ± 0.01974
pull
Entries 44
Mean −17.66
Std Dev 38.66
pull1D
Entries 44
Mean −0.07889
Std Dev 1.029

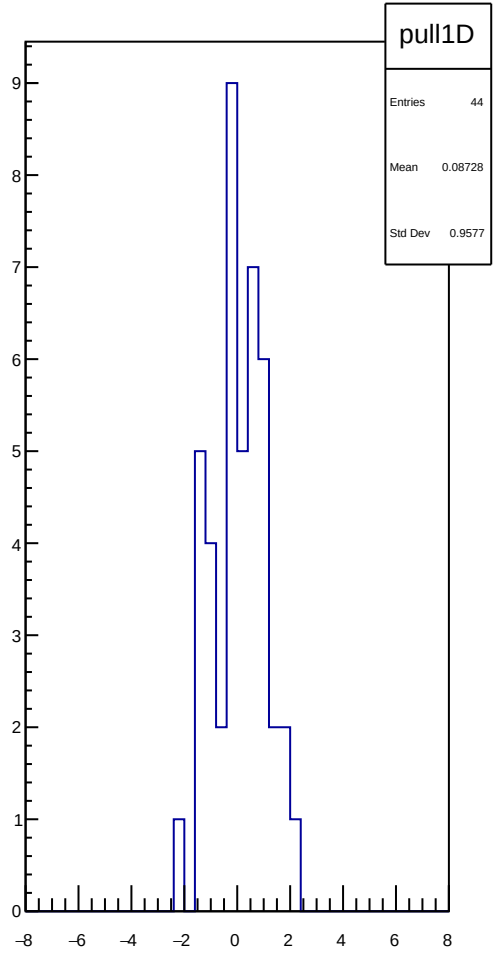

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.13 / 43
p0 −0.01152 ± 0.01422
pull
Entries 44
Mean −6.683
Std Dev 27.74

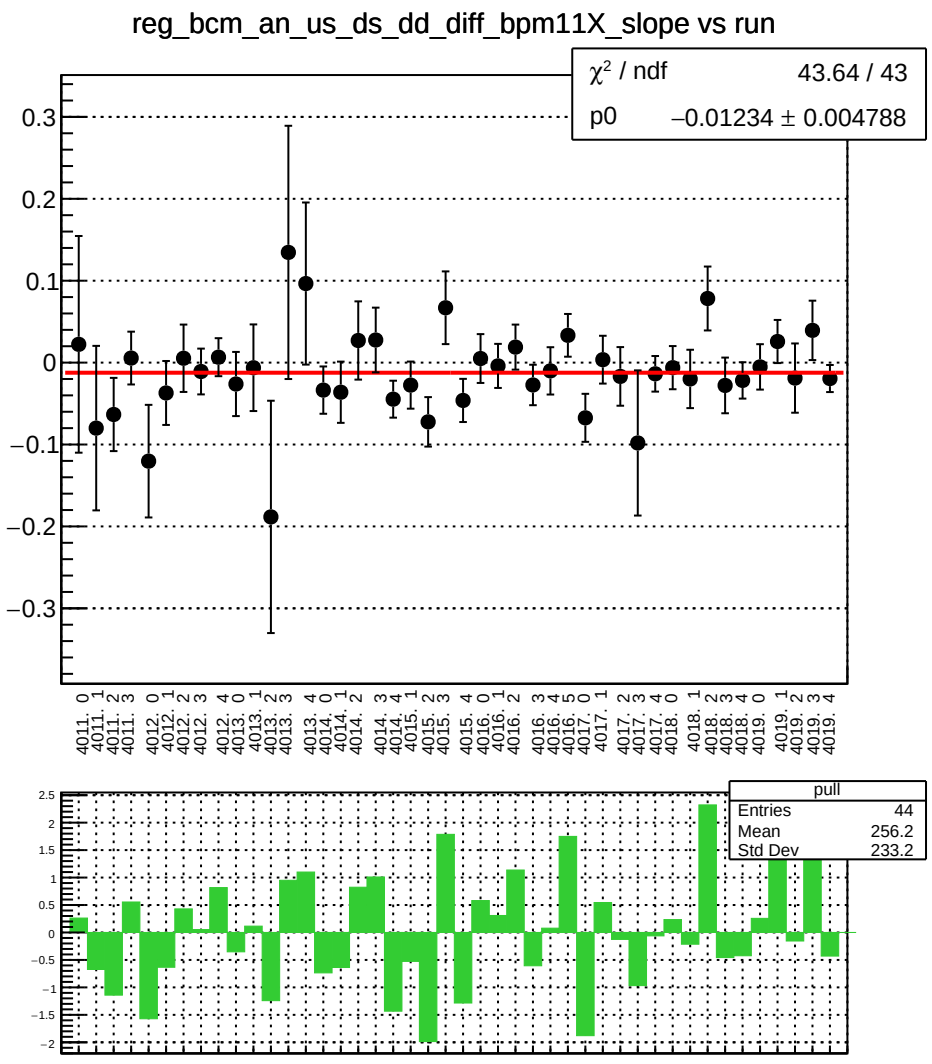

pull1D
Entries 44
Mean −0.06762
Std Dev 0.9284

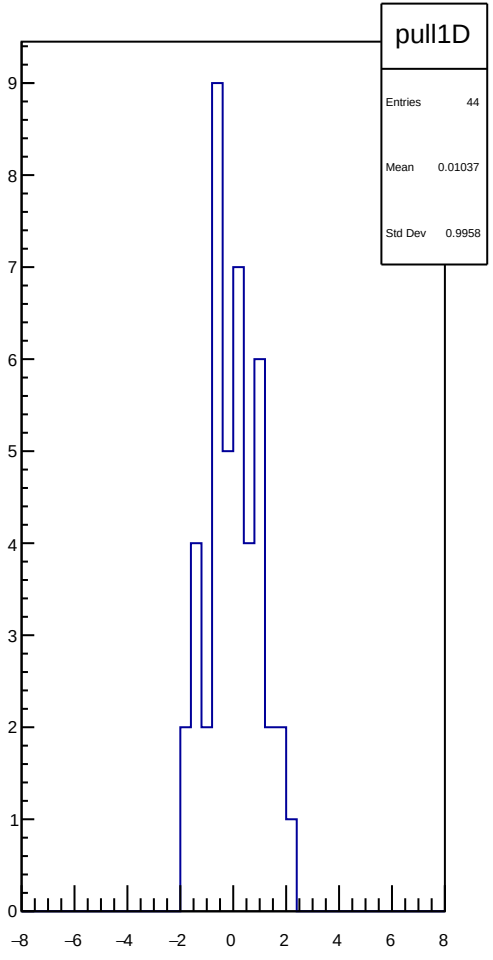

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.76 / 43
p0 0.01739 ± 0.003229
pull
Entries 44
Mean 52.57
Std Dev 8.862

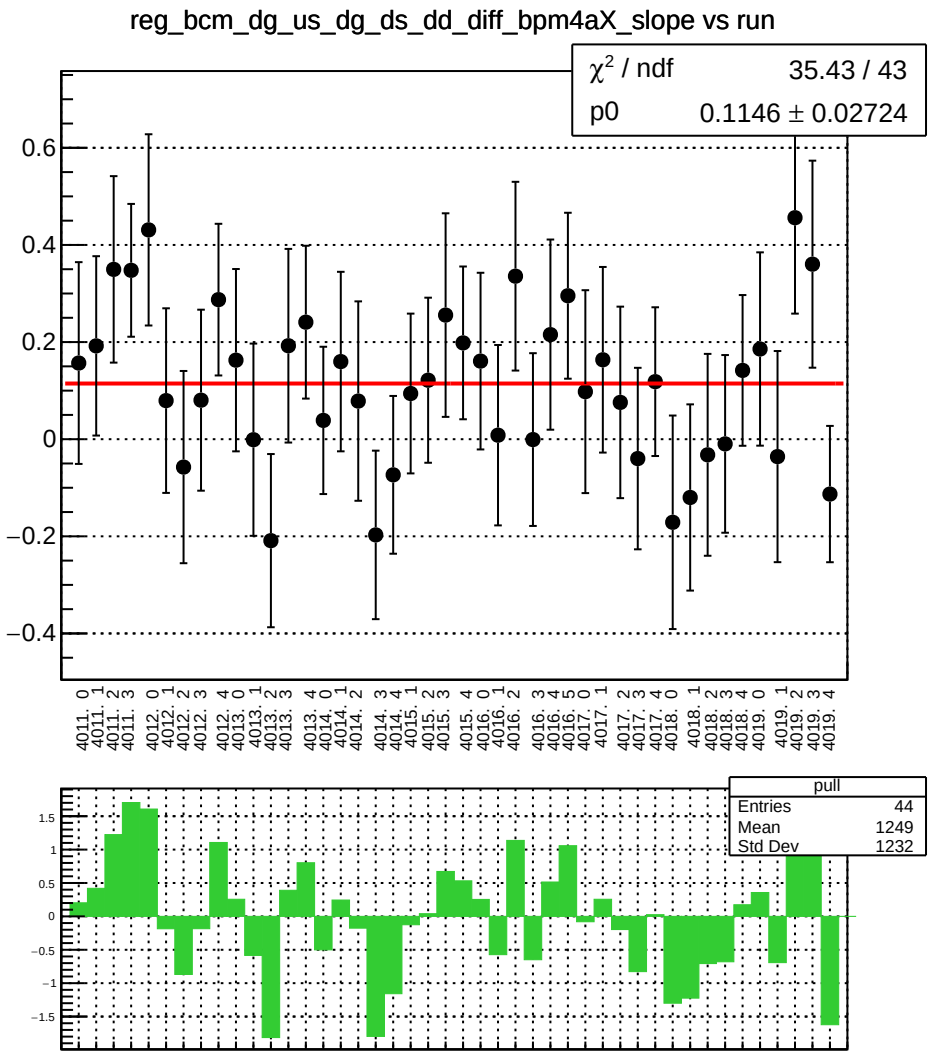

pull1D
Entries 44
Mean 0.003296
Std Dev 0.9015

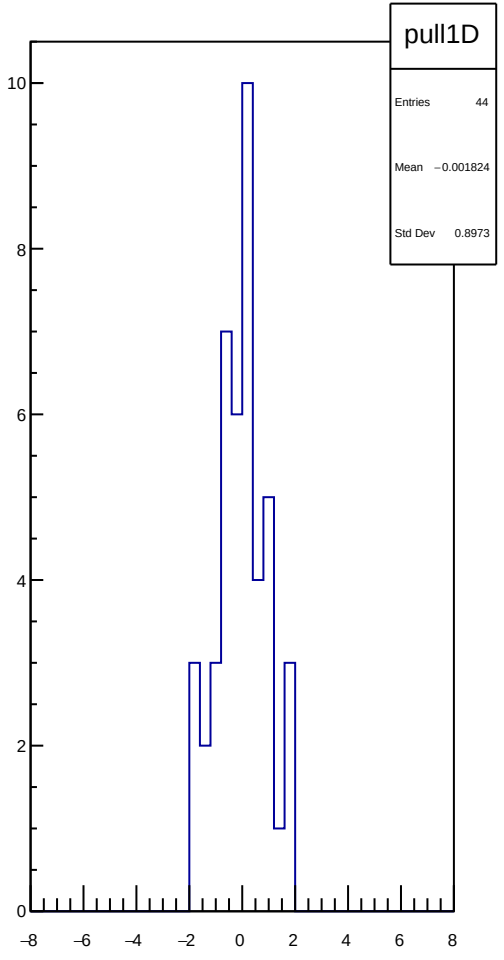

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.69 / 43
p0 0.002222 ± 0.02456
pull
Entries 44
Mean 5.981
Std Dev 14.67

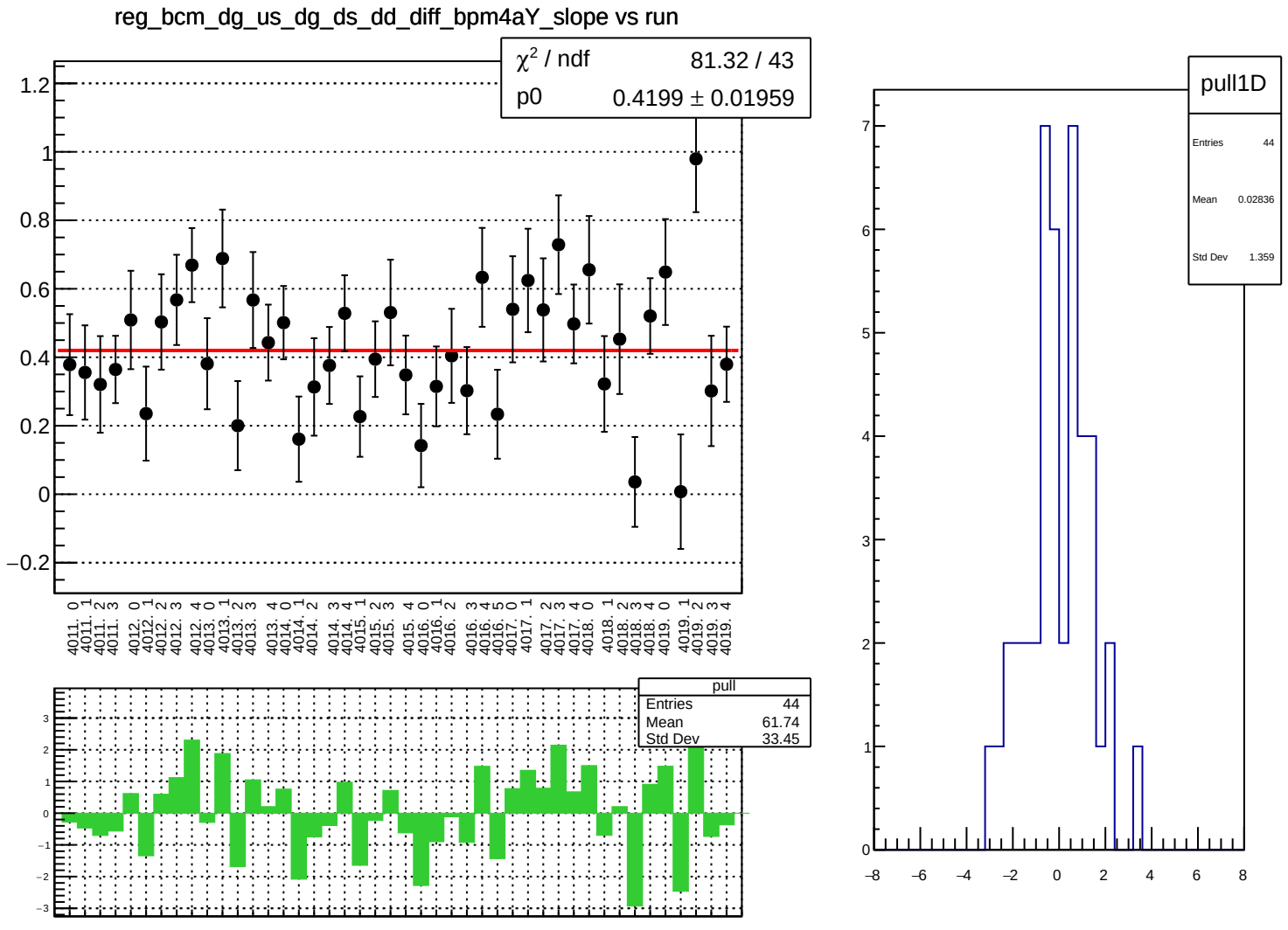

pull1D
Entries 44
Mean 0.08728
Std Dev 0.9577

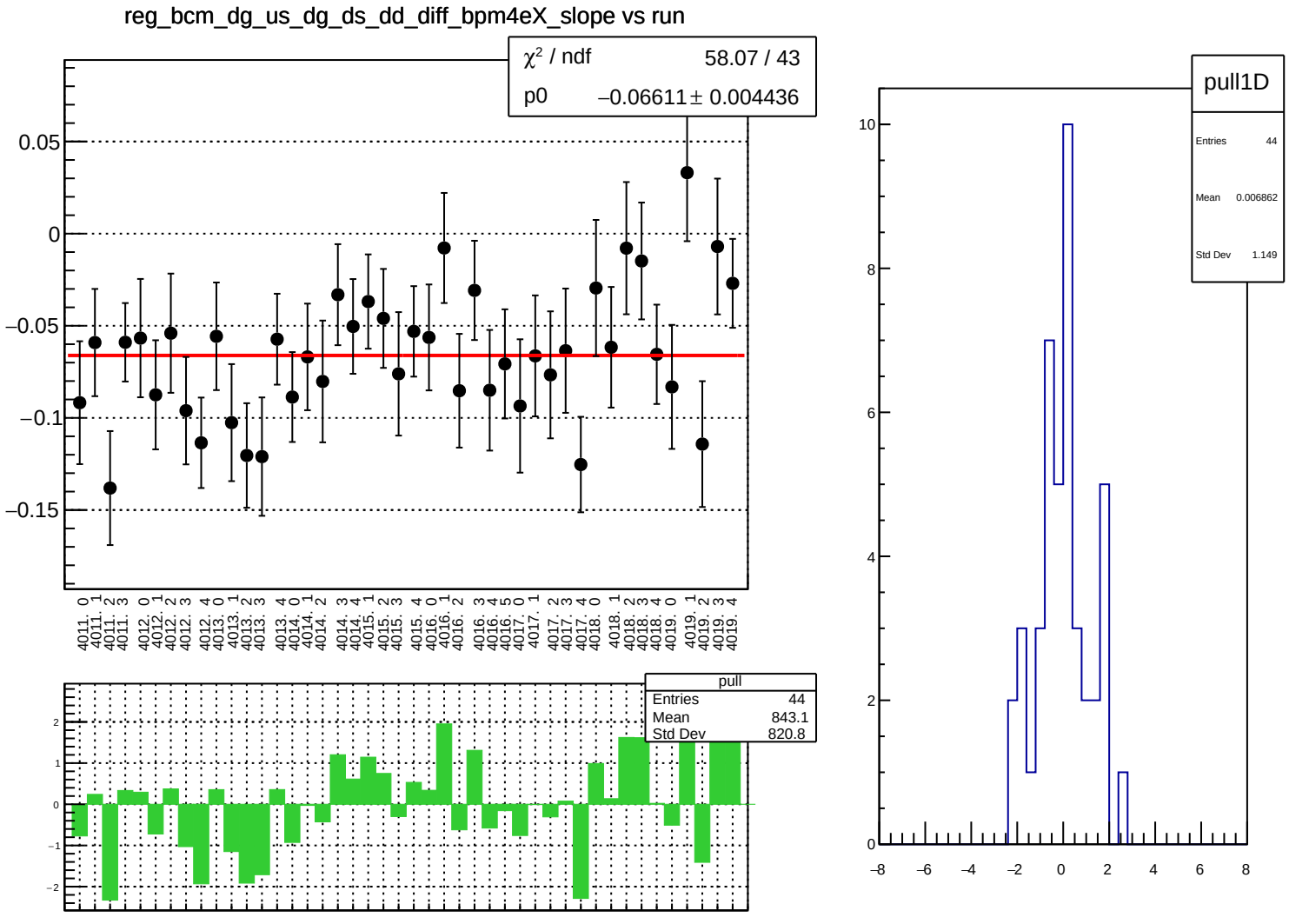

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 43.64 / 43
p0 −0.01234 ± 0.004788
pull
Entries 44
Mean 256.2
Std Dev 233.2

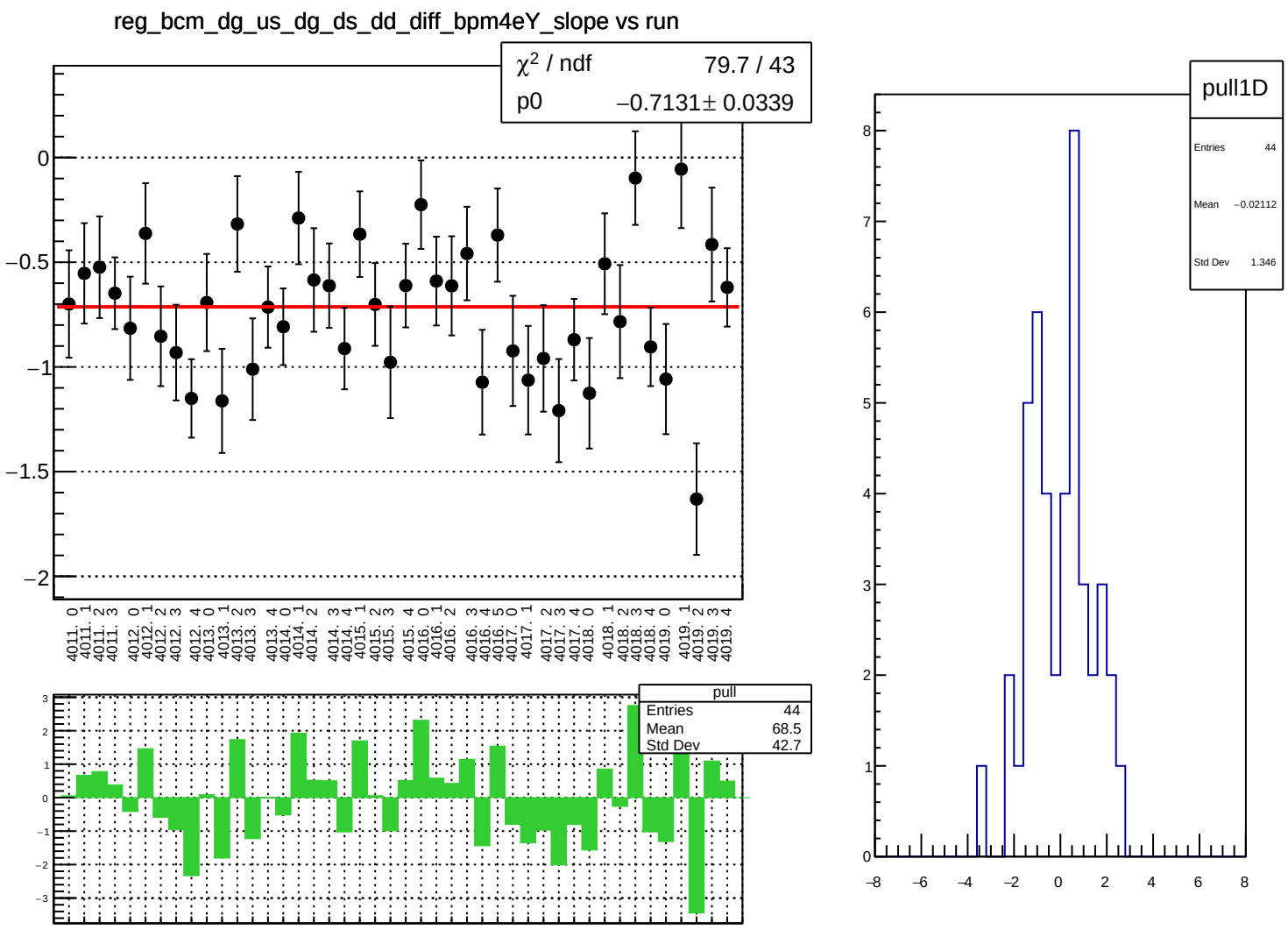

pull1D
Entries 44
Mean 0.01037
Std Dev 0.9958

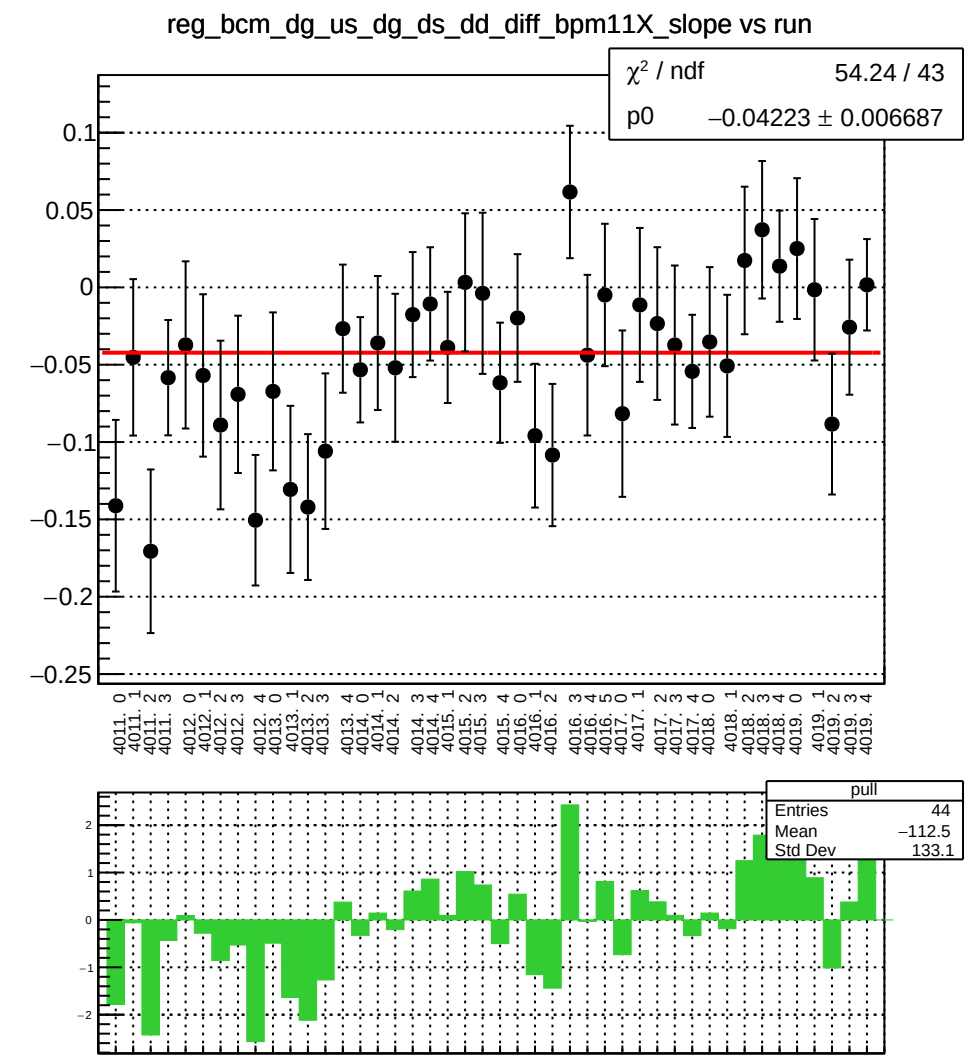

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 35.43 / 43
p0 0.1146 ± 0.02724
pull
Entries 44
Mean 1249
Std Dev 1232

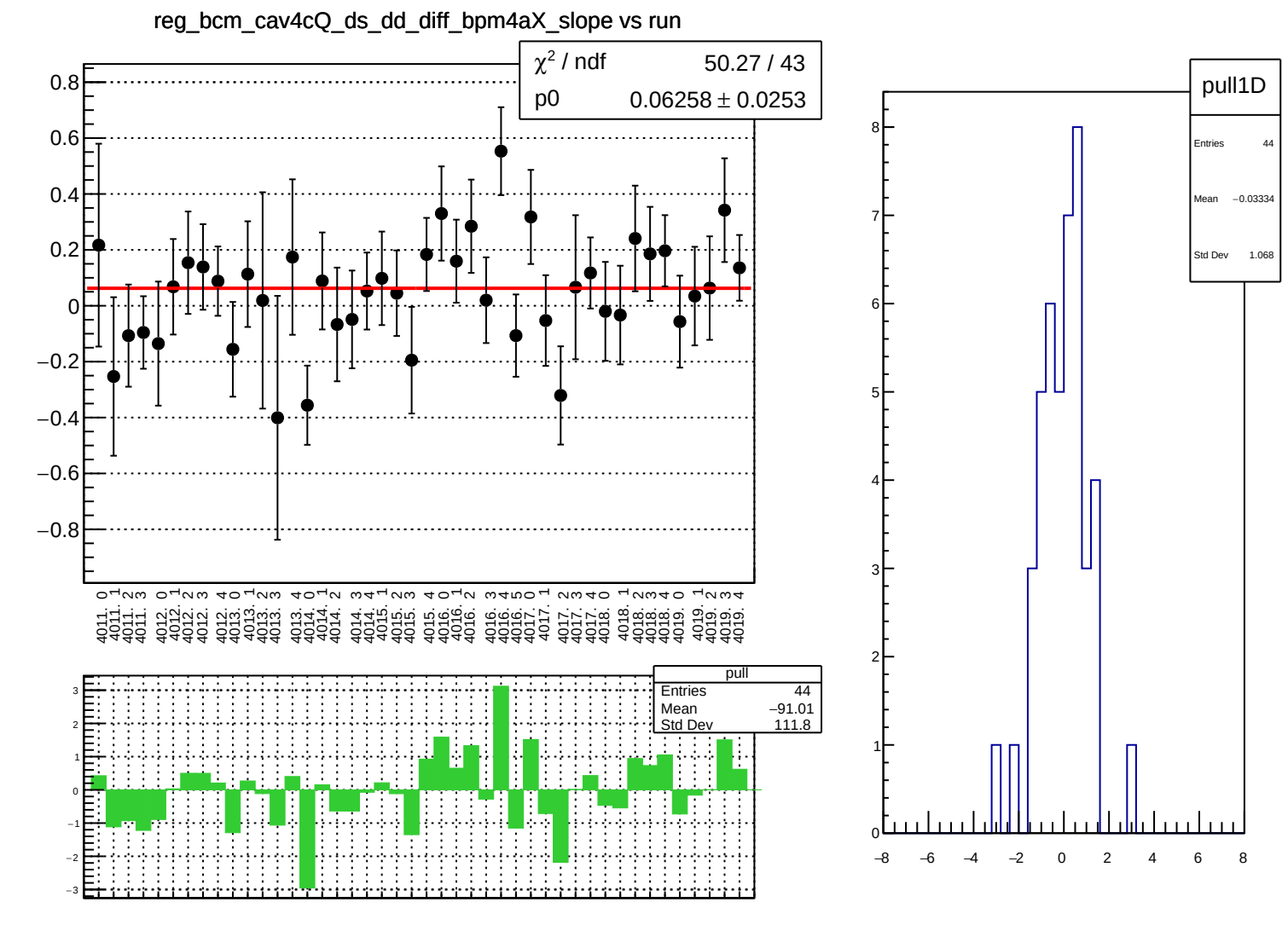

pull1D
Entries 44
Mean −0.001824
Std Dev 0.8973

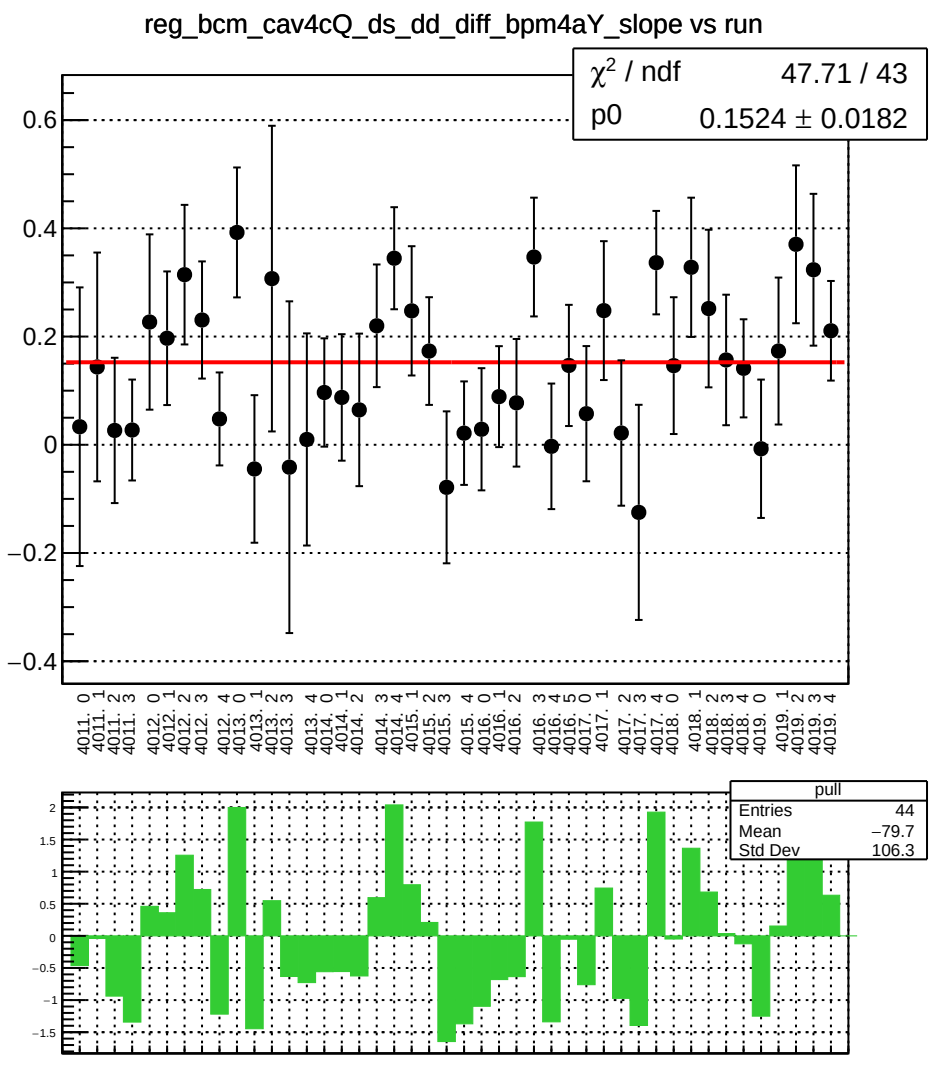

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.32 / 43
p0 0.4199 ± 0.01959
pull
Entries 44
Mean 61.74
Std Dev 33.45
pull1D
Entries 44
Mean 0.02836
Std Dev 1.359

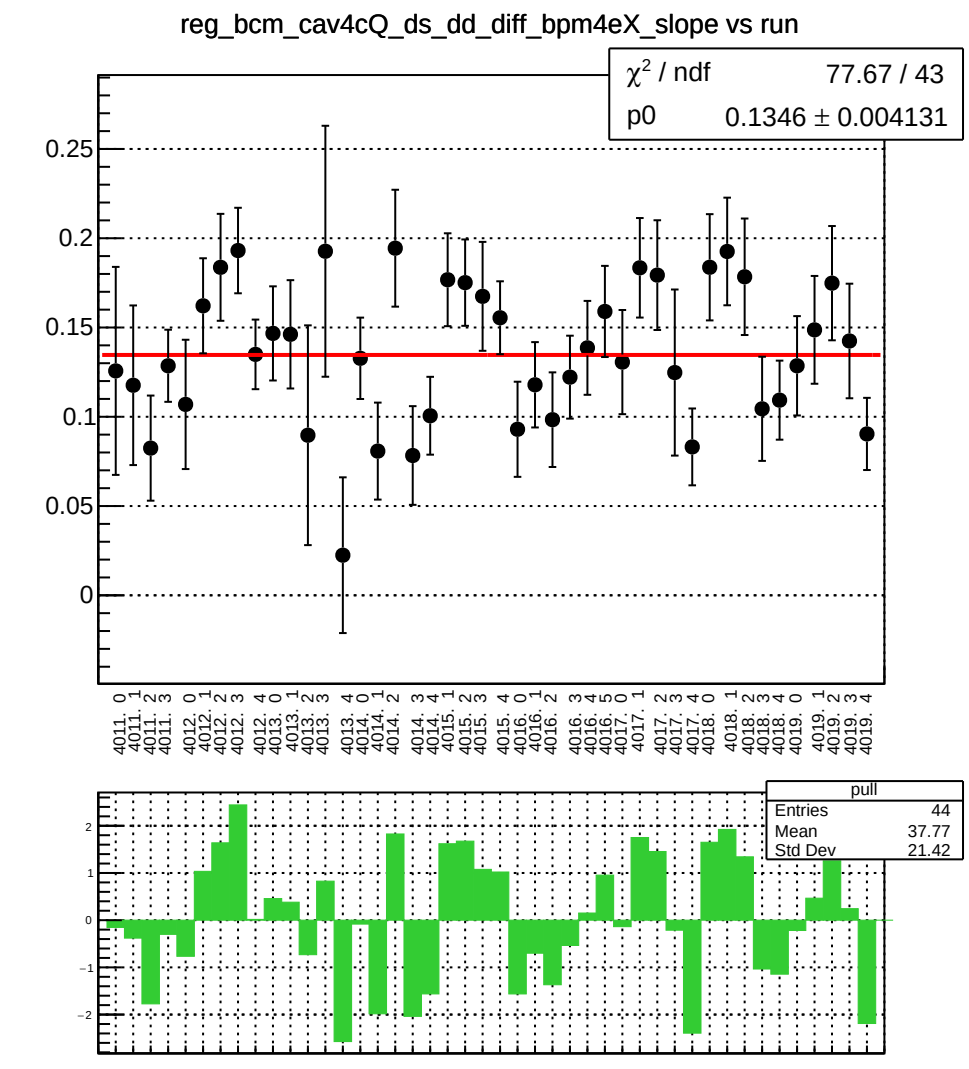

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.07 / 43
p0 −0.06611 ± 0.004436
0.05
0
−0.05
−0.1
−0.15
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 843.1
Std Dev 820.8
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.006862
Std Dev 1.149
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

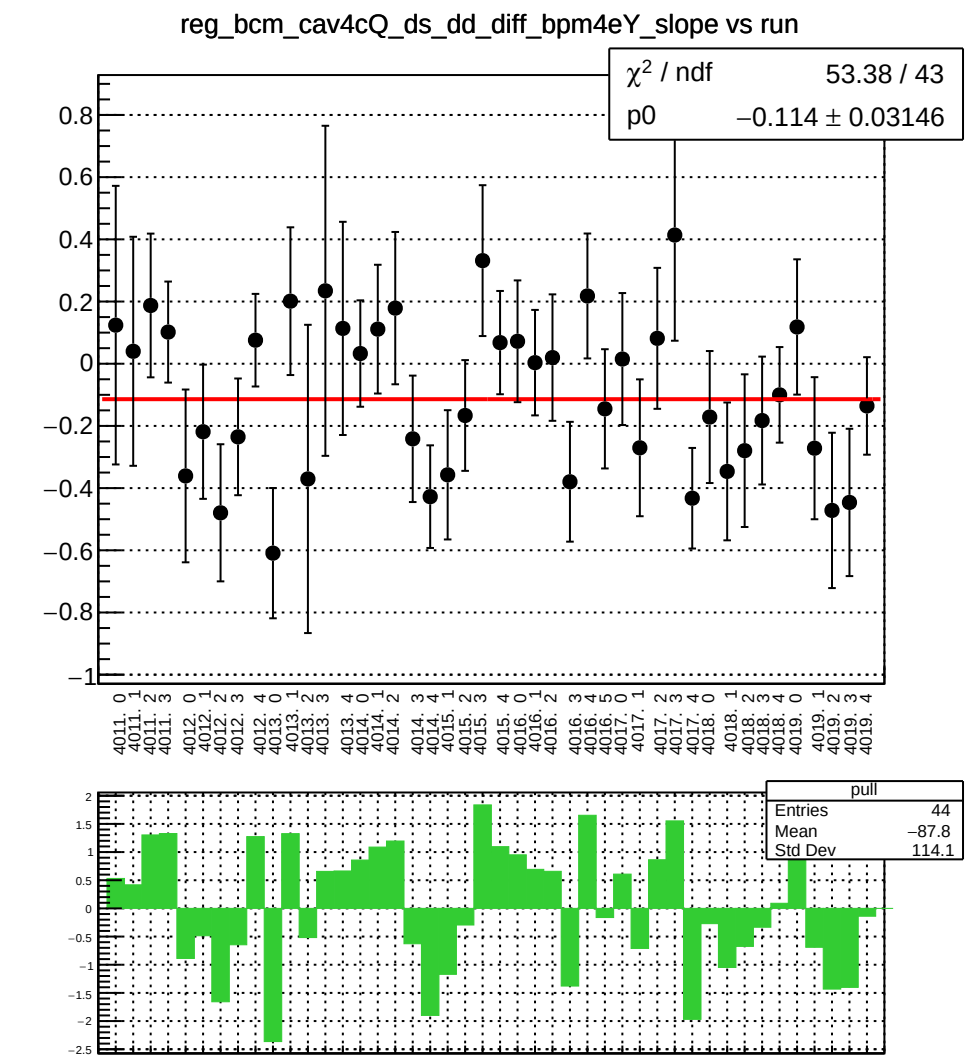

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.7 / 43
p0 −0.7131± 0.0339
pull
Entries 44
Mean 68.5
Std Dev 42.7
pull1D
Entries 44
Mean −0.02112
Std Dev 1.346

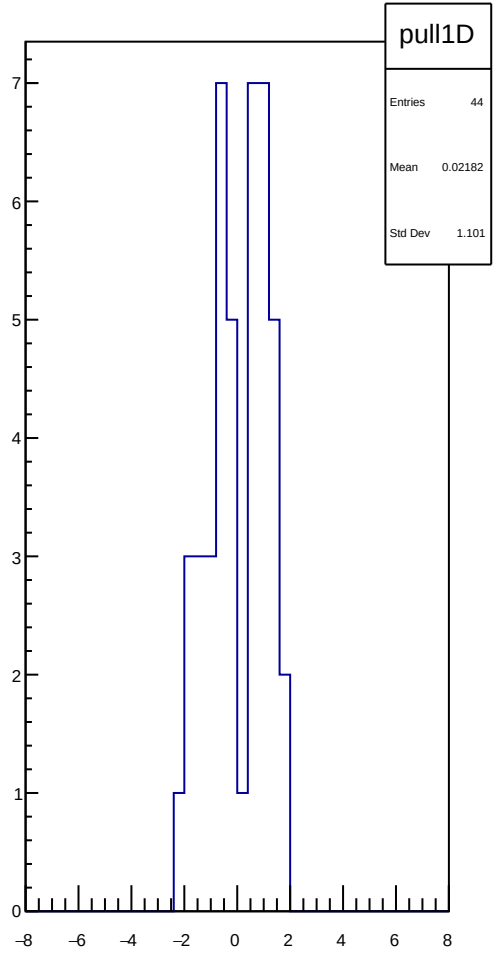

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 54.24 / 43
p0 −0.04223 ± 0.006687
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −112.5
Std Dev 133.1
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.05859
Std Dev 1.109
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

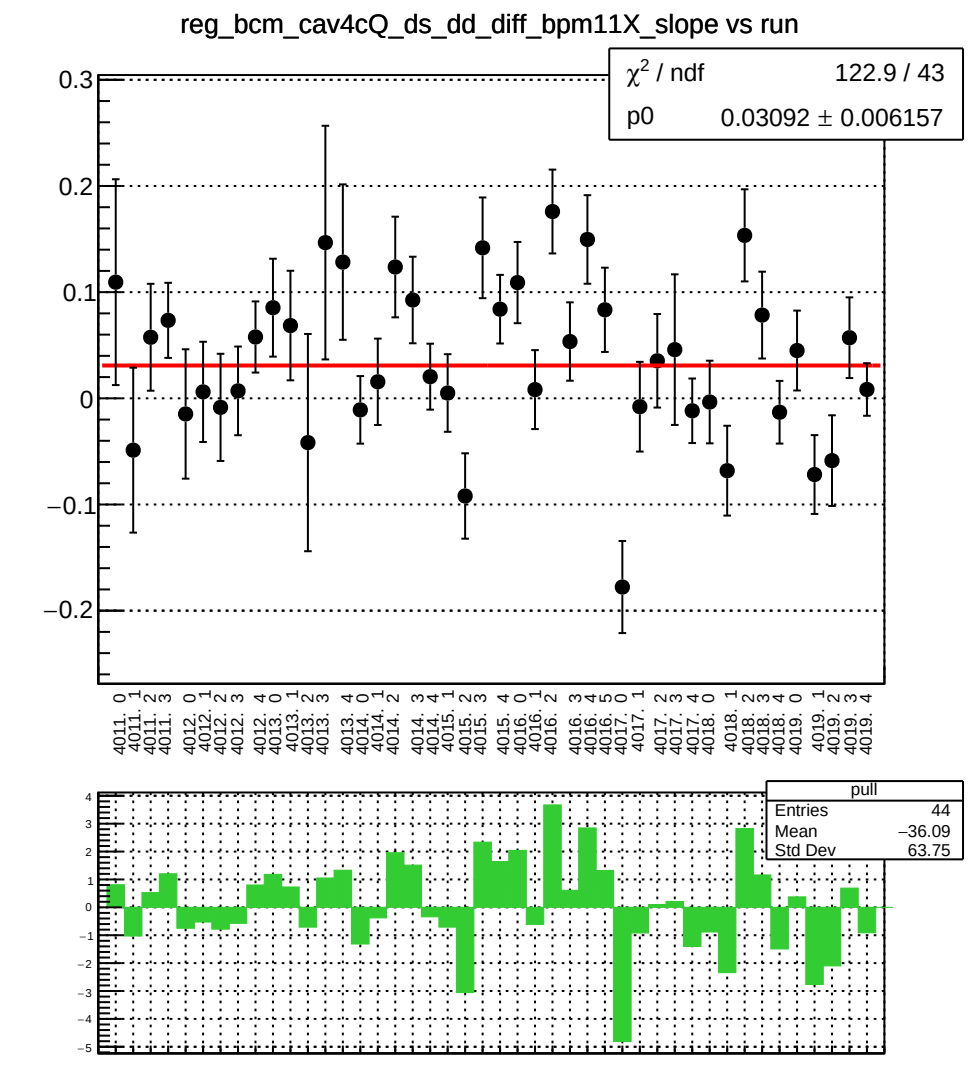

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 50.27 / 43
p0 0.06258 ± 0.0253
pull
Entries 44
Mean −91.01
Std Dev 111.8
pull1D
Entries 44
Mean −0.03334
Std Dev 1.068

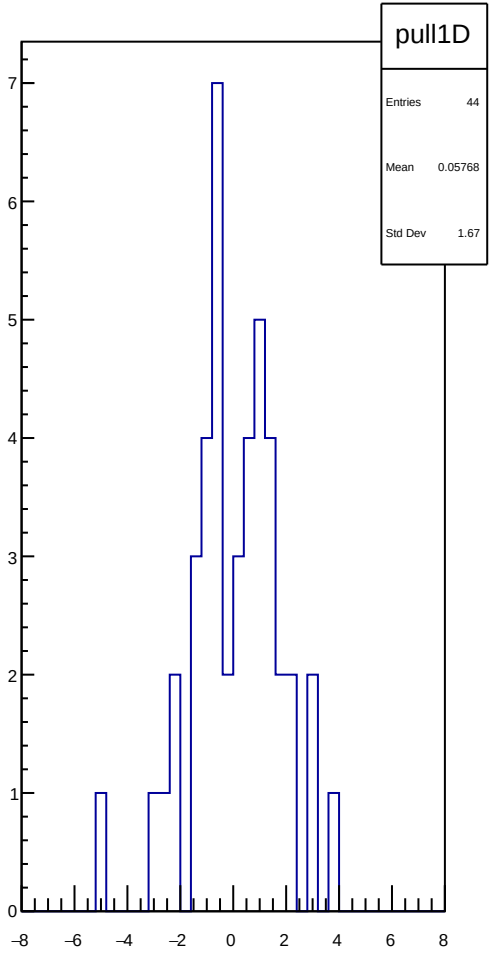

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.71 / 43
p0 0.1524 ± 0.0182
0.6
0.4
0.2
0
−0.2
−0.4
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −79.7
Std Dev 106.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean −0.02062
Std Dev 1.041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

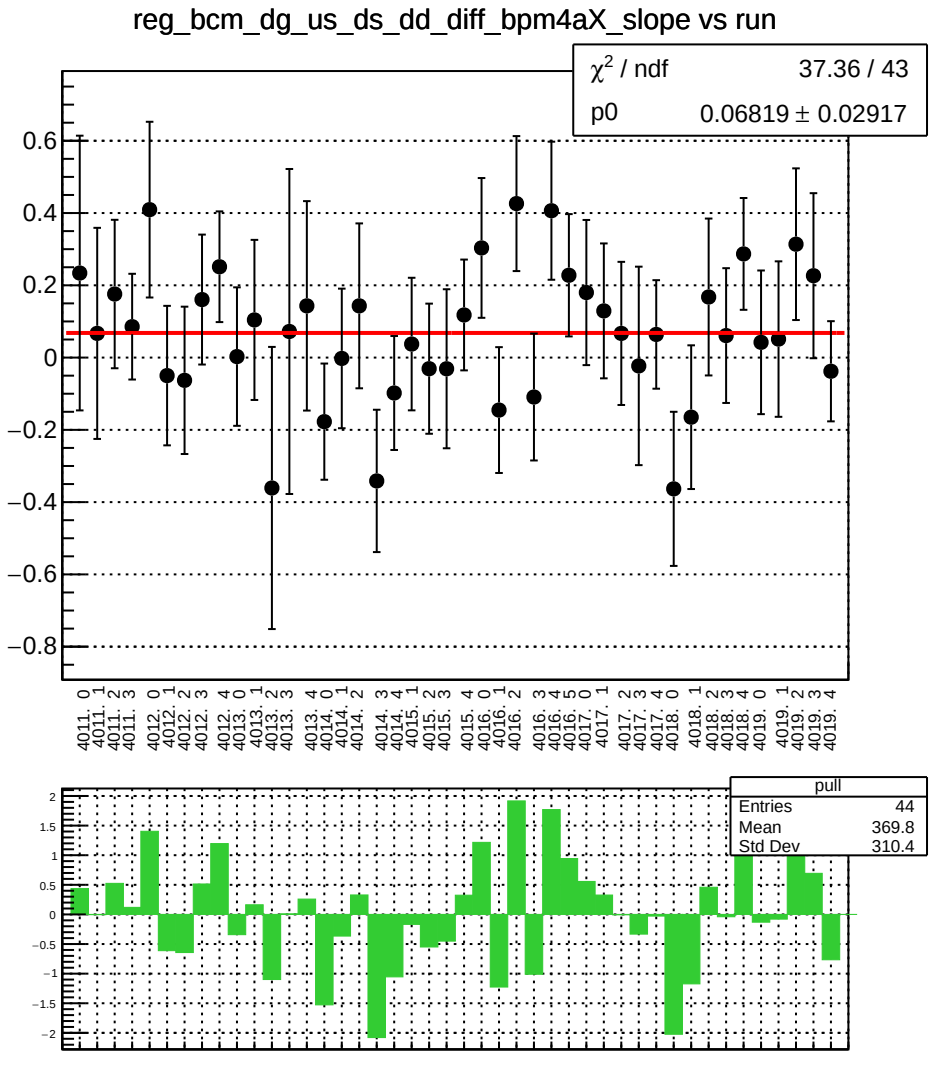

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 77.67 / 43
p0 0.1346 ± 0.004131
0.25
0.2
0.15
0.1
0.05
0
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 37.77
Std Dev 21.42
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.03119
Std Dev 1.328
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

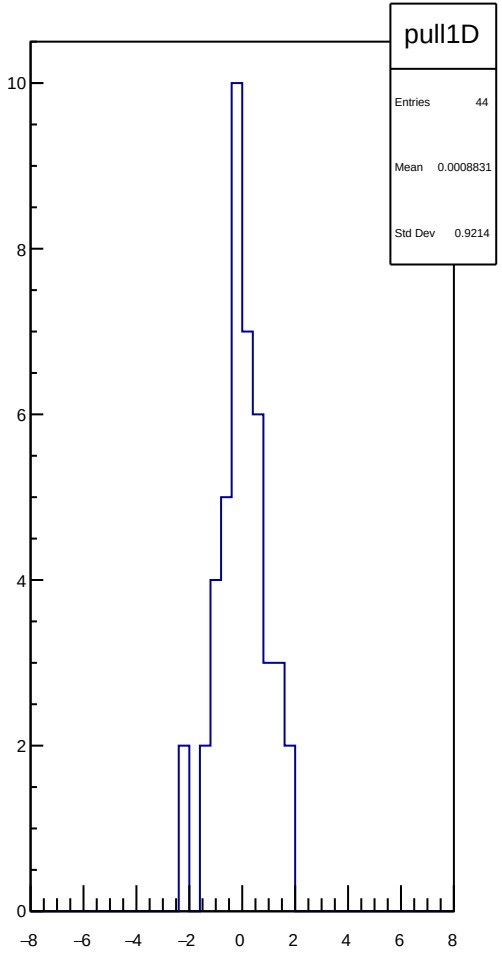

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.38 / 43
p0 −0.114 ± 0.03146
pull
Entries 44
Mean −87.8
Std Dev 114.1

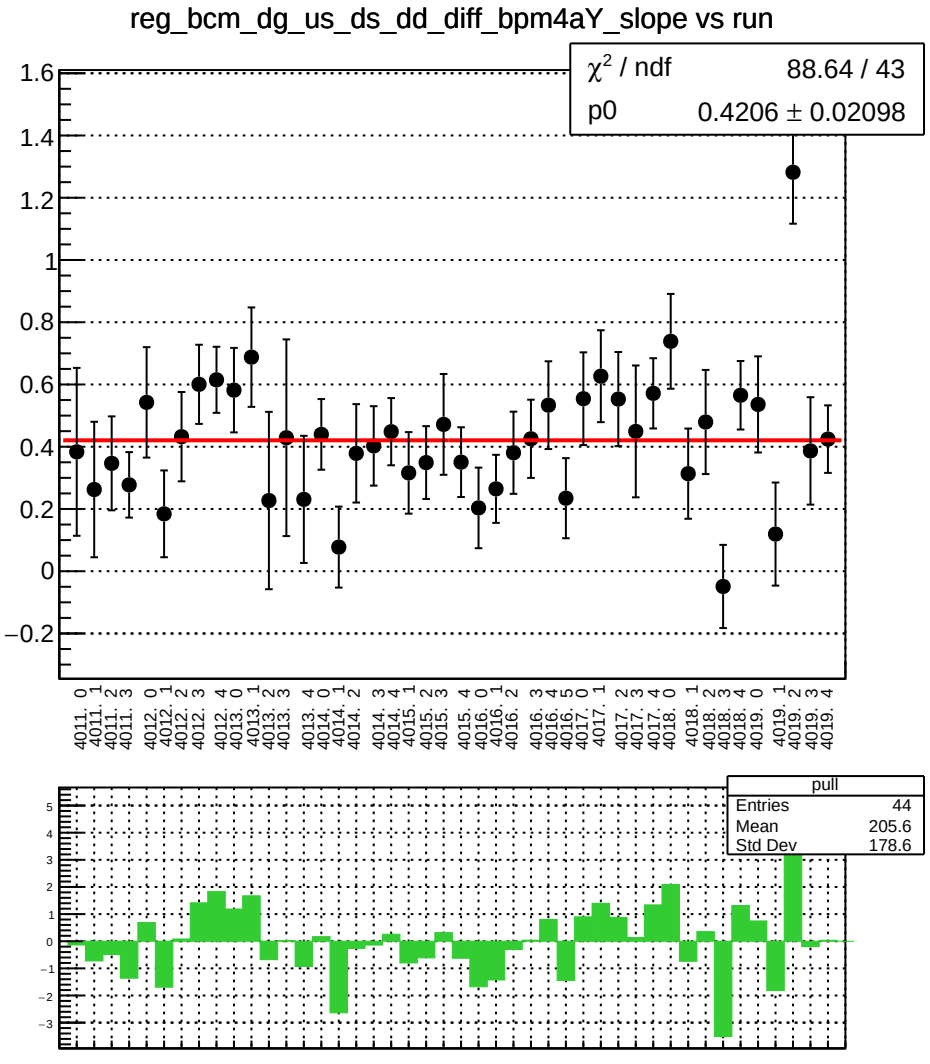

pull1D
Entries 44
Mean 0.02182
Std Dev 1.101

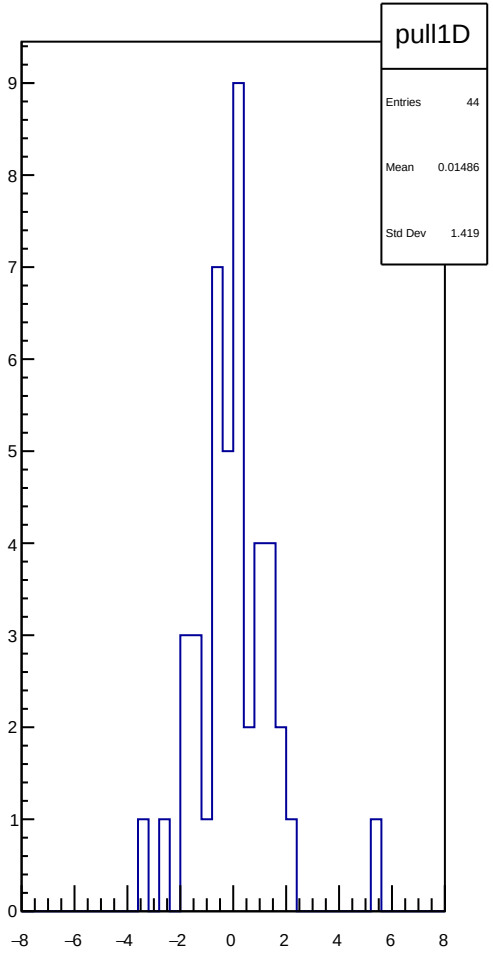

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 122.9 / 43
p0 0.03092 ± 0.006157
0.3
0.2
0.1
0
−0.1
−0.2
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −36.09
Std Dev 63.75
4
3
2
1
0
−1
−2
−3
−4
−5

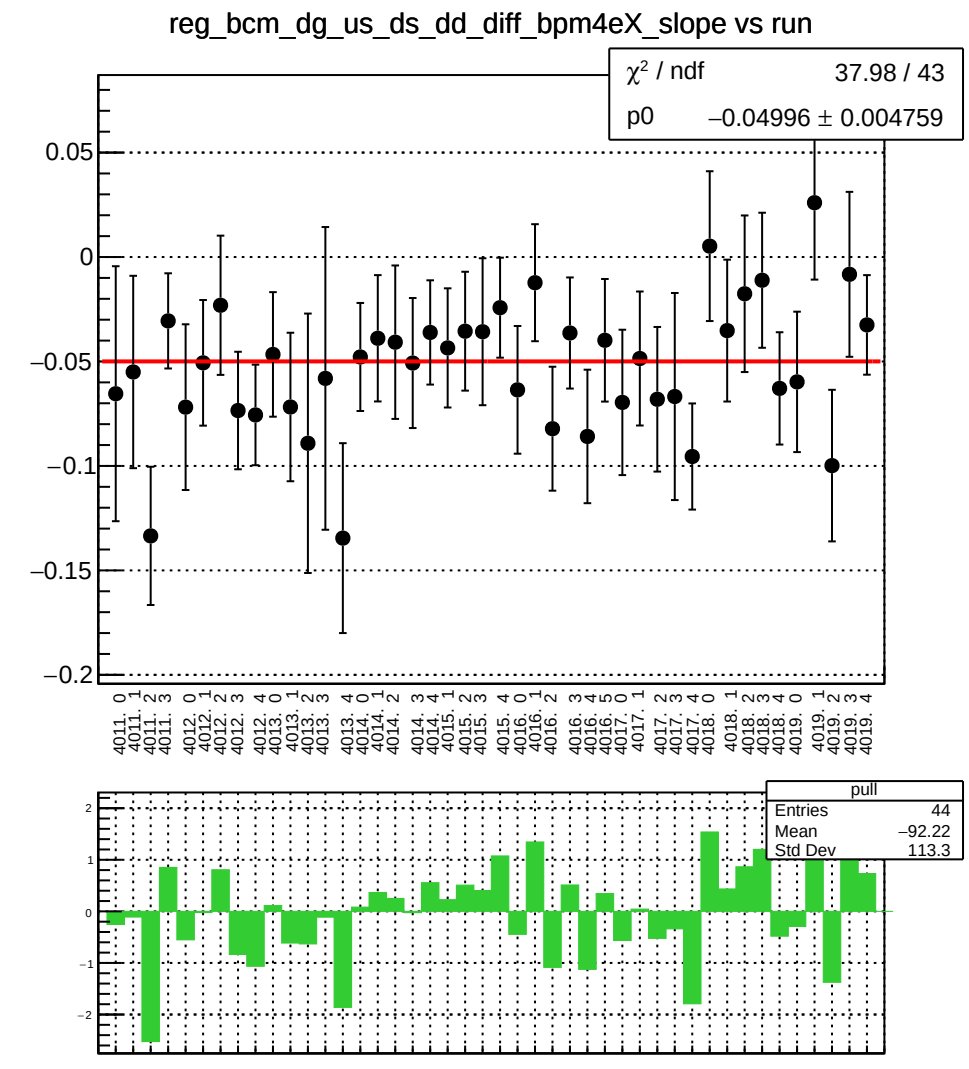

pull1D
Entries 44
Mean 0.05768
Std Dev 1.67
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

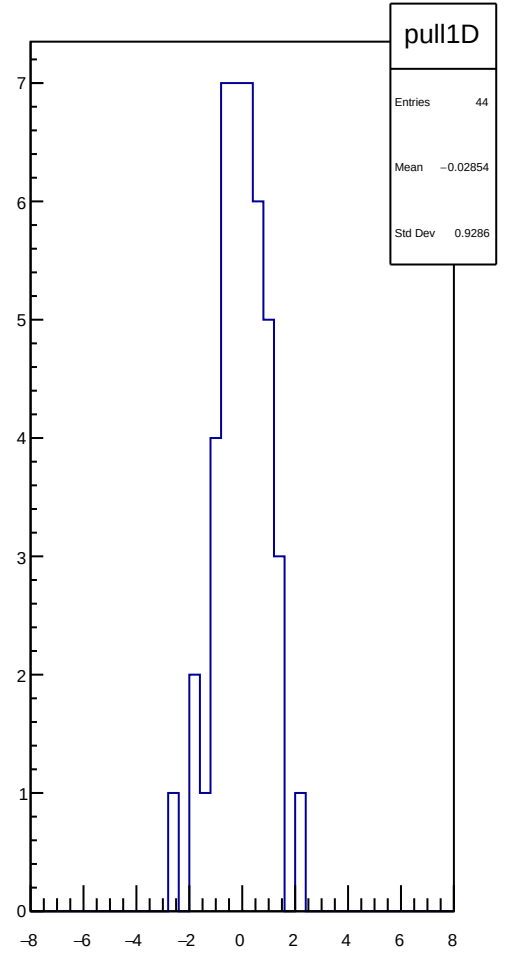

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 37.36 / 43
p0 0.06819 ± 0.02917
pull
Entries 44
Mean 369.8
Std Dev 310.4

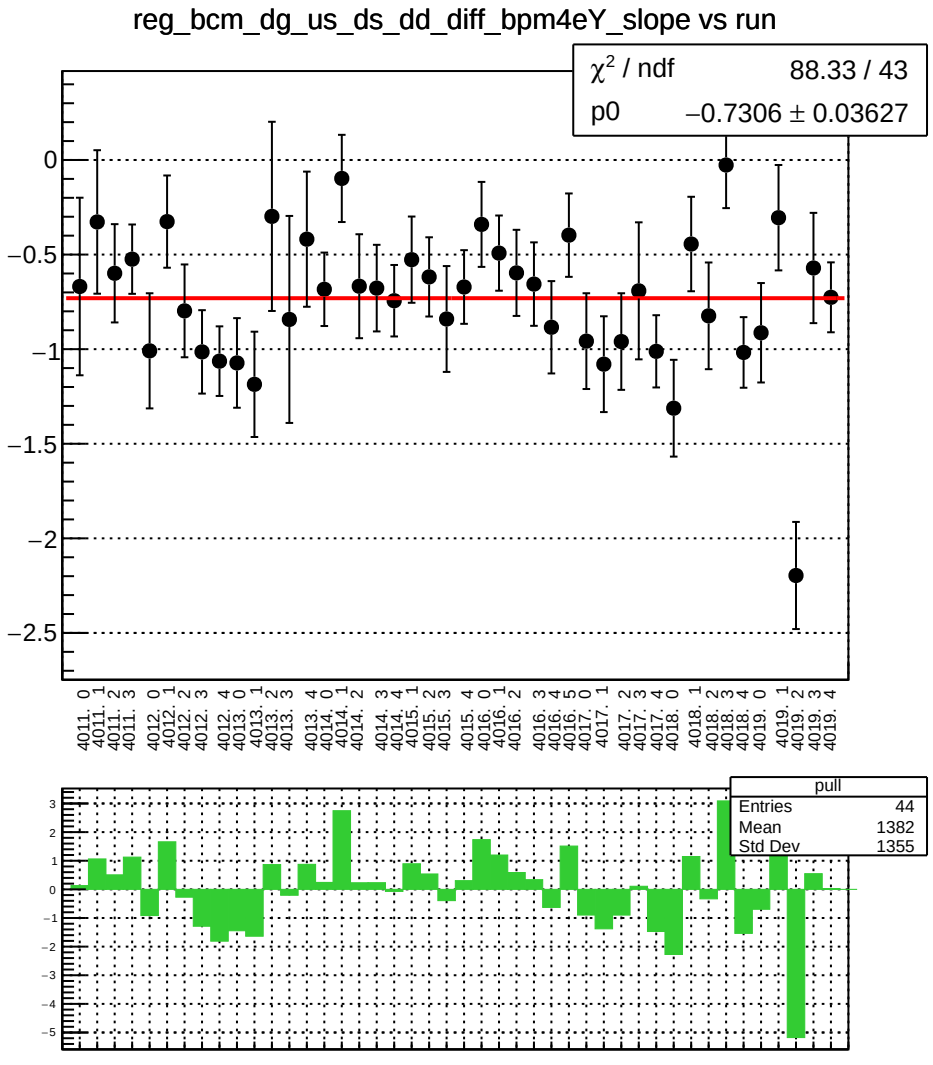

pull1D
Entries 44
Mean 0.0008831
Std Dev 0.9214

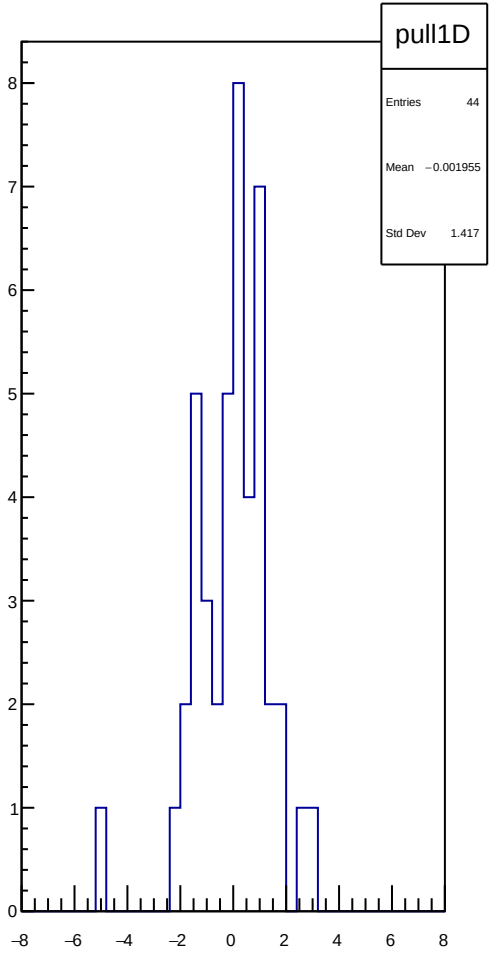

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 88.64 / 43
p0 0.4206 ± 0.02098
pull
Entries 44
Mean 205.6
Std Dev 178.6

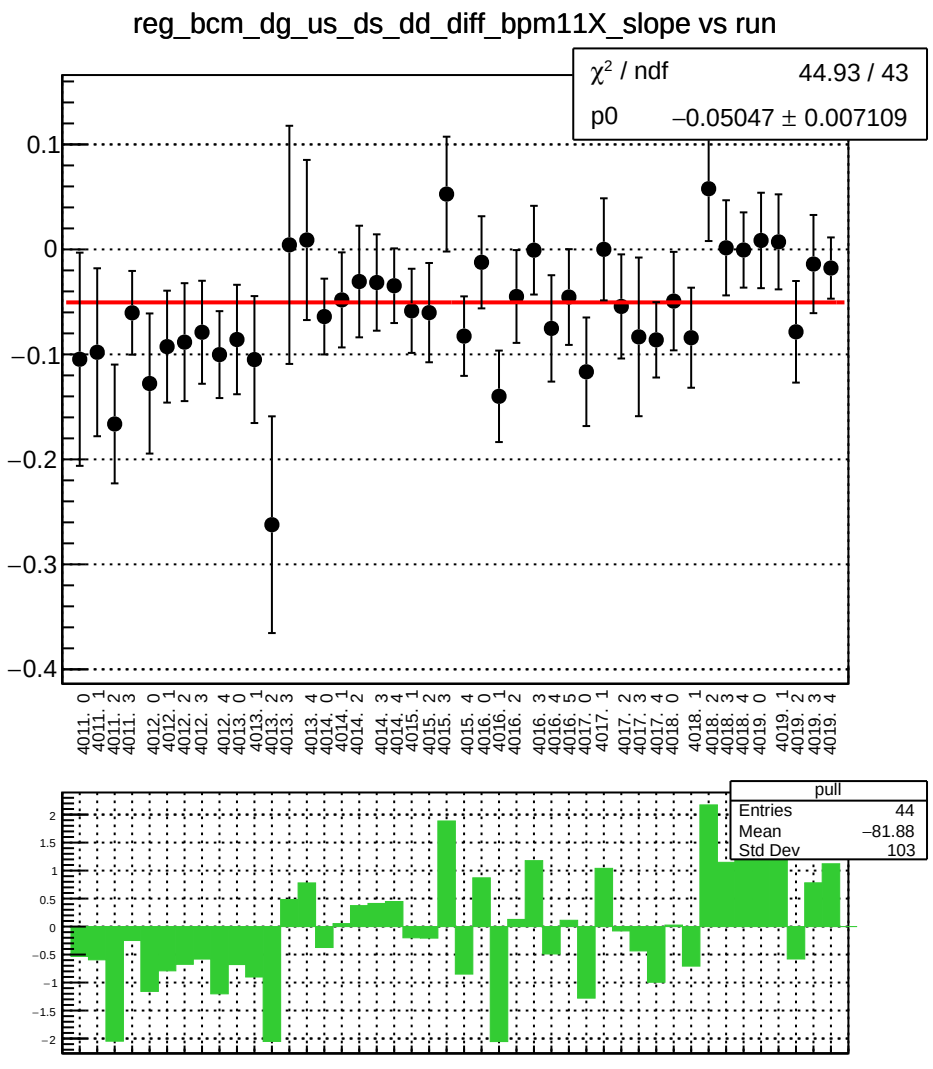

pull1D
Entries 44
Mean 0.01486
Std Dev 1.419

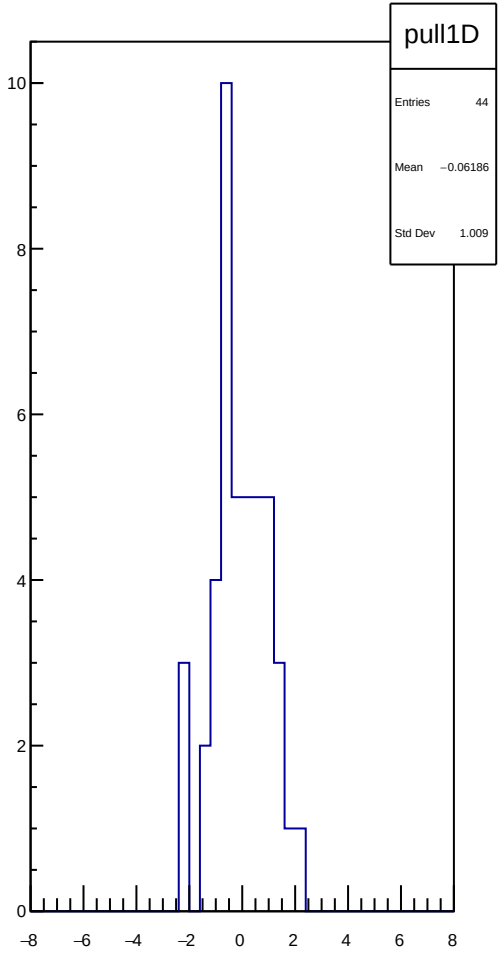

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.98 / 43
p0 −0.04996 ± 0.004759
0.05
0
−0.05
−0.1
−0.15
−0.2
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −92.22
Std Dev 113.3
2
1
0
−1
−2

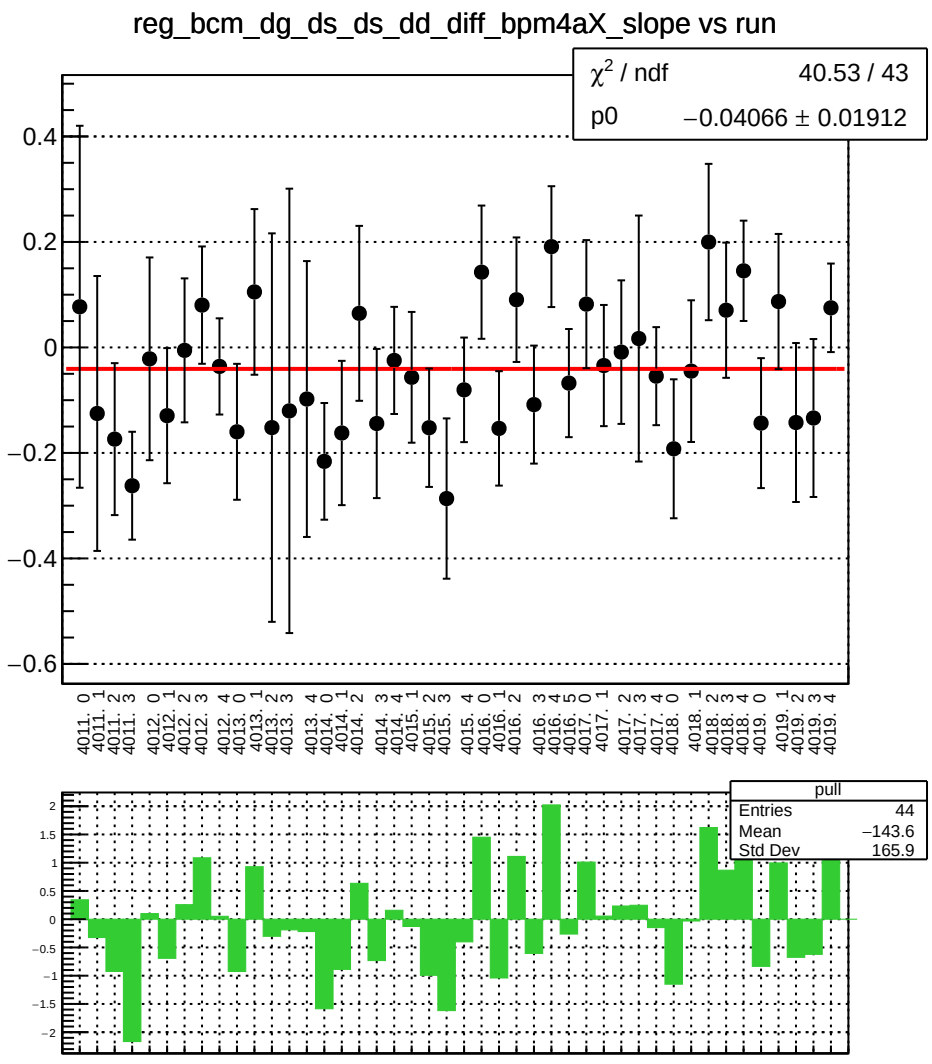

pull1D
Entries 44
Mean −0.02854
Std Dev 0.9286
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

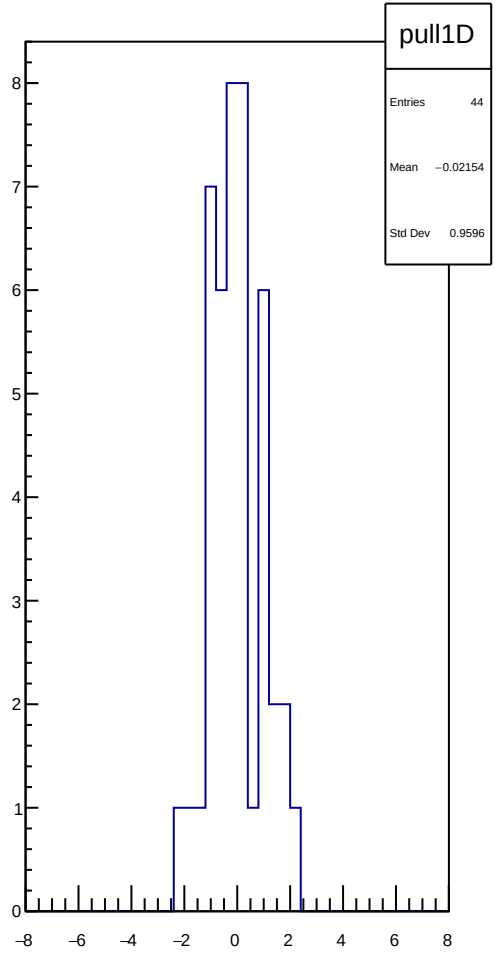

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 88.33 / 43
p0 −0.7306 ± 0.03627
0
−0.5
−1
−1.5
−2
−2.5
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 1382
Std Dev 1355
3
2
1
0
−1
−2
−3
−4
−5

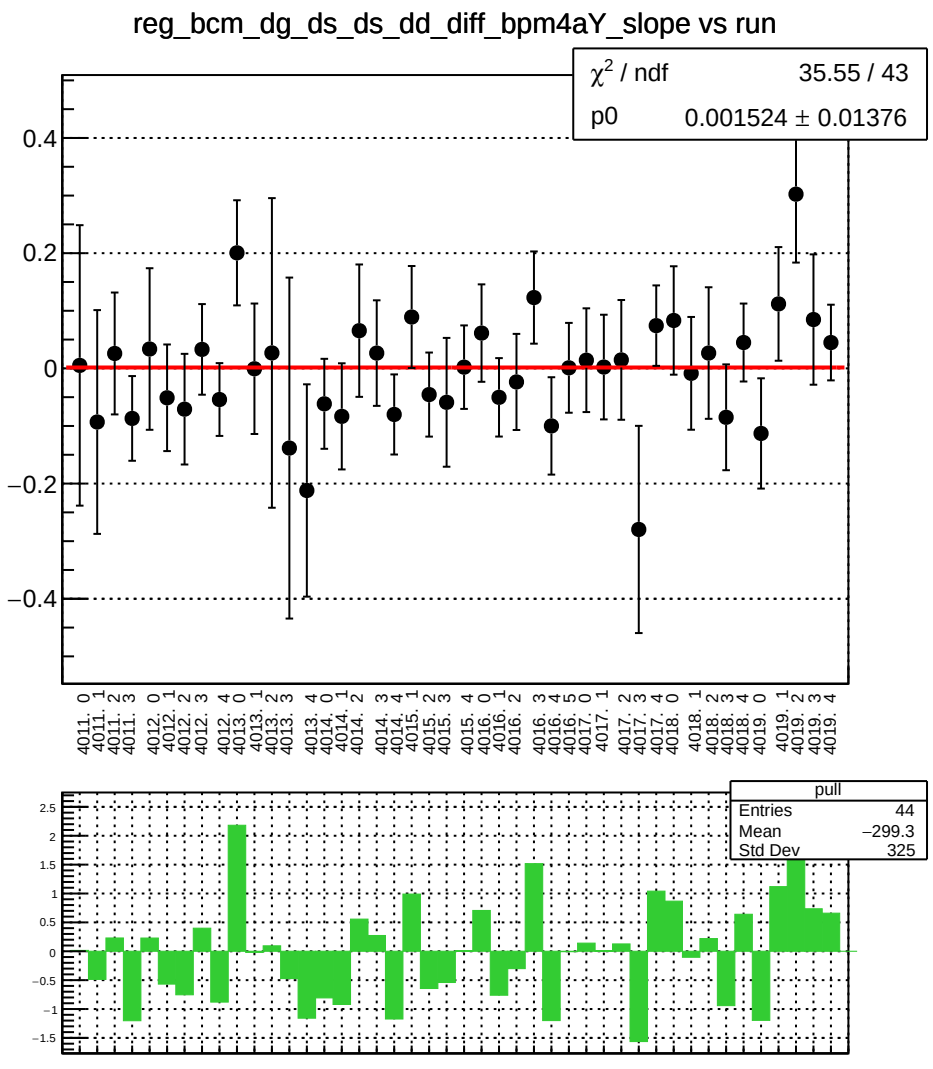

pull1D
Entries 44
Mean −0.001955
Std Dev 1.417
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

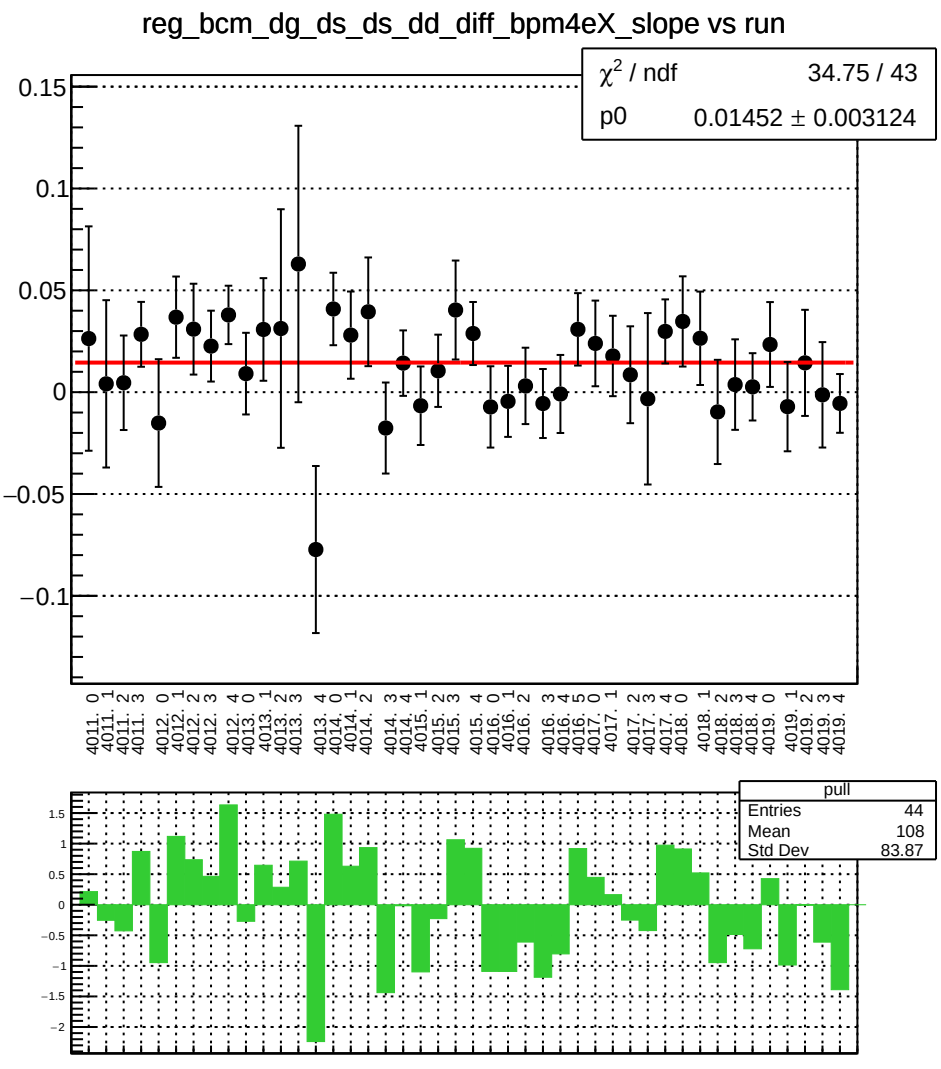

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 44.93 / 43
p0 −0.05047 ± 0.007109
pull
Entries 44
Mean −81.88
Std Dev 103

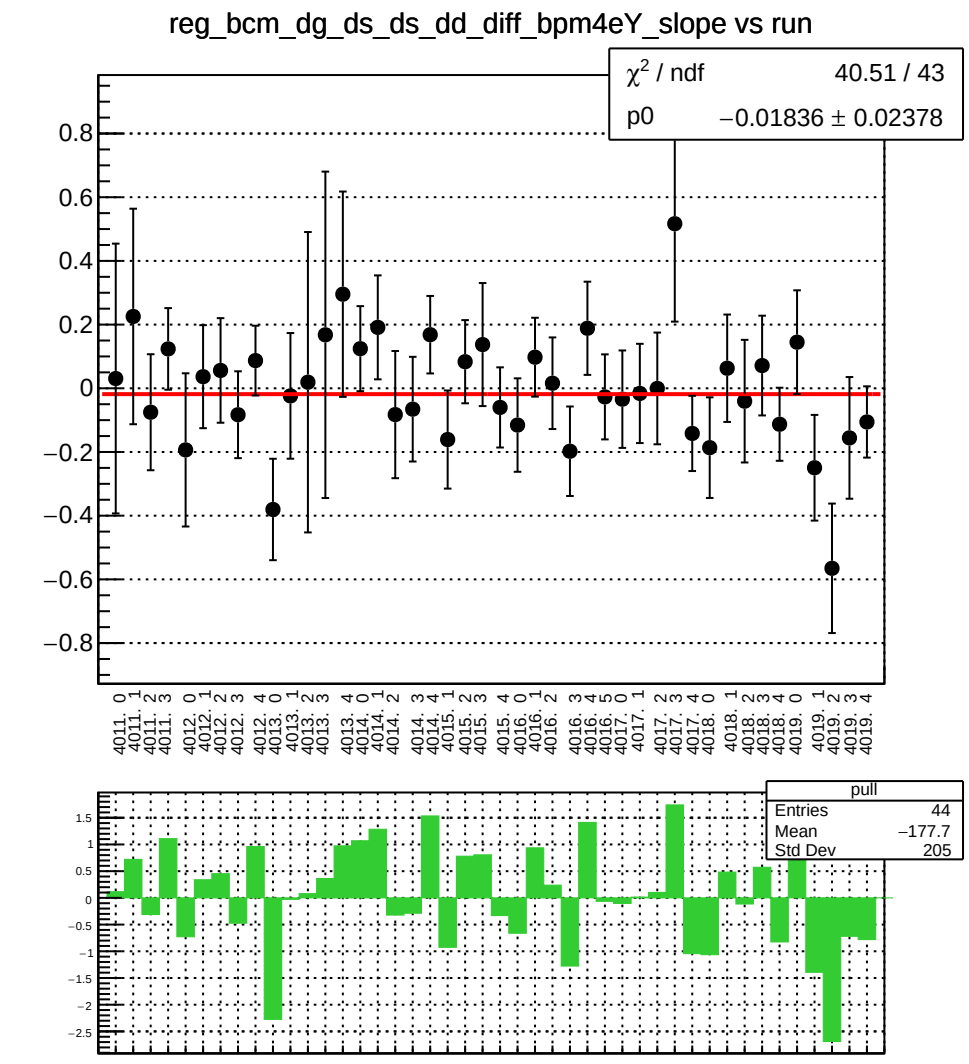

pull1D
Entries 44
Mean −0.06186
Std Dev 1.009

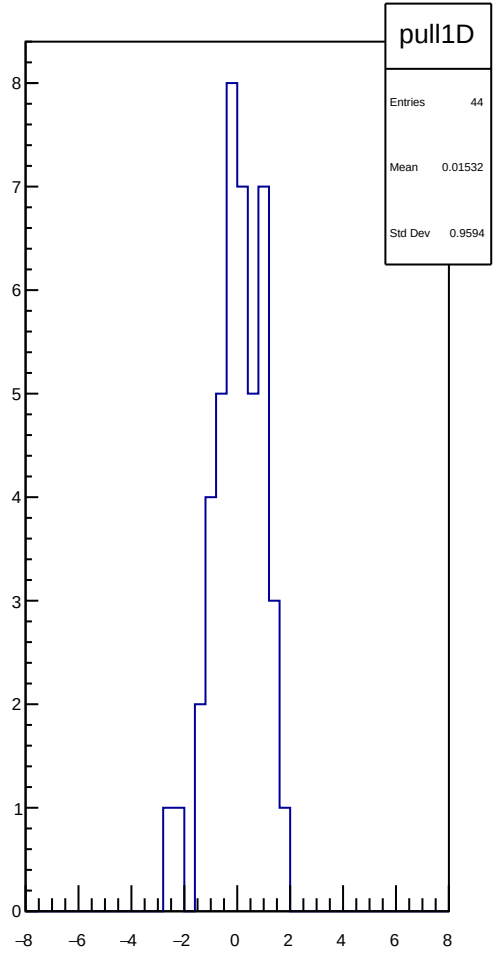

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 40.53 / 43
p0 −0.04066 ± 0.01912
pull
Entries 44
Mean −143.6
Std Dev 165.9

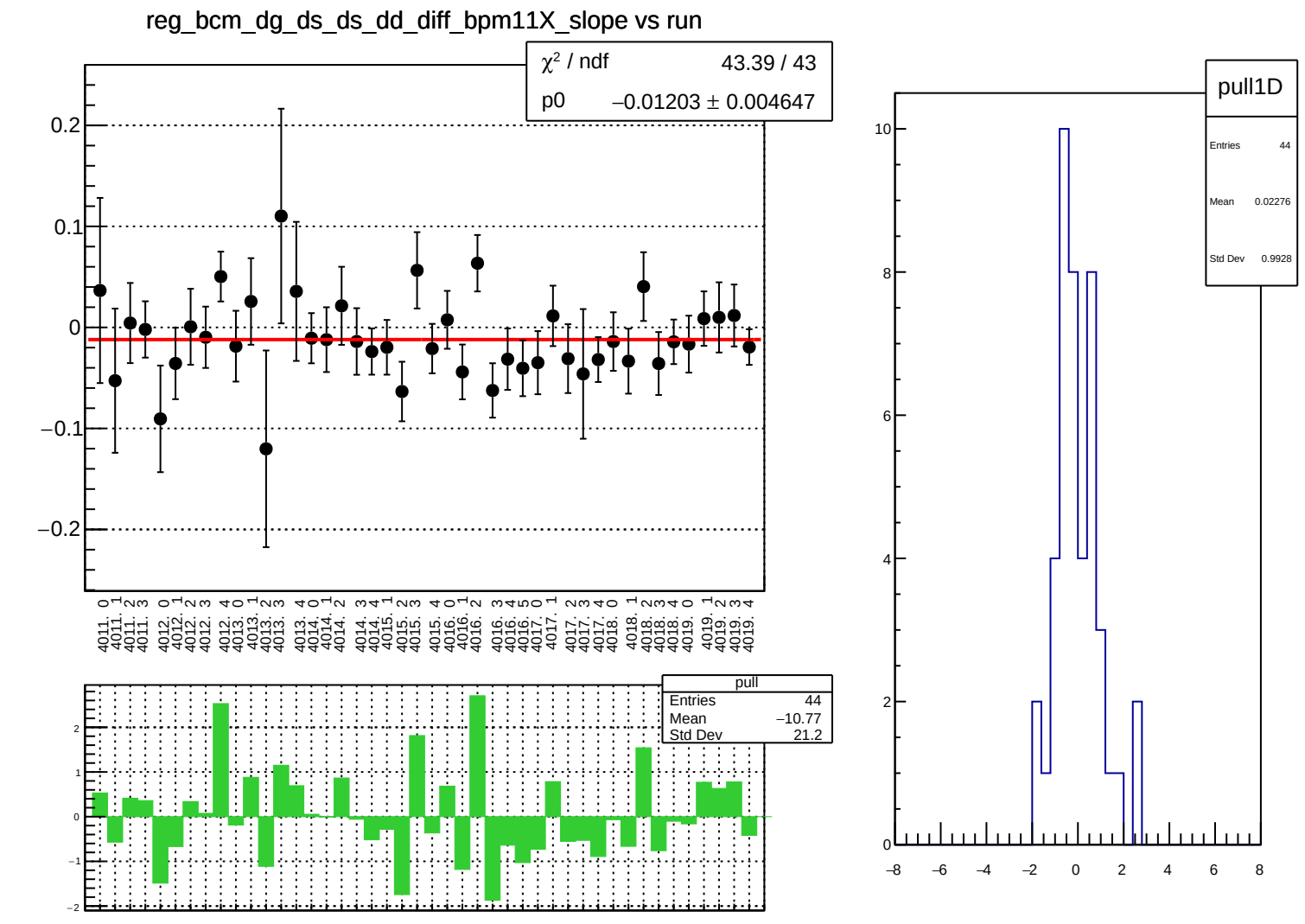

pull1D
Entries 44
Mean −0.02154
Std Dev 0.9596


reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.55 / 43
p0 0.001524 ± 0.01376
0.4
0.2
0
−0.2
−0.4
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −299.3
Std Dev 325
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean −0.009245
Std Dev 0.8988
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.75 / 43
p0 0.01452 ± 0.003124
0.15
0.1
0.05
0
−0.05
−0.1
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean 108
Std Dev 83.87
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean −0.03278
Std Dev 0.8881
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.51 / 43
p0 −0.01836 ± 0.02378
pull
Entries 44
Mean −177.7
Std Dev 205


pull1D
Entries 44
Mean 0.01532
Std Dev 0.9594


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 43.39 / 43
p0 −0.01203 ± 0.004647
0.2
0.1
0
−0.1
−0.2
4011. 0
4011. 1
4011. 2
4011. 3
4012. 0
4012. 1
4012. 2
4012. 3
4012. 4
4013. 0
4013. 1
4013. 2
4013. 3
4013. 4
4014. 0
4014. 1
4014. 2
4014. 3
4014. 4
4015. 1
4015. 2
4015. 3
4015. 4
4016. 0
4016. 1
4016. 2
4016. 3
4016. 4
4016. 5
4017. 0
4017. 1
4017. 2
4017. 3
4017. 4
4018. 0
4018. 1
4018. 2
4018. 3
4018. 4
4019. 0
4019. 1
4019. 2
4019. 3
4019. 4
pull
Entries 44
Mean −10.77
Std Dev 21.2
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.02276
Std Dev 0.9928
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8